378.186

THE UNIVERSITY OF NORTH CAROLINA

THE ONE HUNDRED AND
TWENTY-SEVENTH SESSION

THE CATALOGUE

1920 - 1921

ANNOUNCEMENTS

for

1921 - 1922

1921

JANUARY						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

APRIL						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

JULY						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

OCTOBER						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

FEBRUARY						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

MAY						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

AUGUST						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

NOVEMBER						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

MARCH						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JUNE						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

SEPTEMBER						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

DECEMBER						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

1922

JANUARY						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

APRIL						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

JULY						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

OCTOBER						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

FEBRUARY						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

MAY						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

AUGUST						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

NOVEMBER						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

MARCH						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

SEPTEMBER						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

DECEMBER						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

CALENDAR

1921

June 12-15	*Sunday to Wednesday.* Commencement.
June 13-August 19	Summer Law School.
June 21-August 5	Summer School.
September 21-24	*Wednesday to Saturday.* Examinations for Removal of Conditions.
September 27-28	*Tuesday and Wednesday.* Registration for Fall Quarter. Entrance Examinations.
September 29	*Thursday.* Fall Quarter begins.
October 12	*Wednesday.* University Day.
November 23	*Wednesday.* Thanksgiving Recess begins (1:30 P. M.)
November 29	*Tuesday.* Thanksgiving Recess ends (8:30 A. M.)
December 22	*Thursday.* Fall Quarter ends. Christmas Recess begins.

1922

January 3-4	*Tuesday and Wednesday.* Registration for Winter Quarter.
January 5	*Thursday.* Winter Quarter begins.
March 22	*Wednesday.* Winter Quarter ends.
March 23	*Thursday.* Spring Quarter begins.
April 13	*Thursday.* Easter Recess begins (4:30 P. M.)
April 20	*Thursday.* Easter Recess ends (8:30 A. M.)
May 13	Selection of Commencement Orators.
June 10	Spring Quarter ends.
June 11	*Sunday.* Baccalaureate Sermon. Sermon before the Y. M. C. A.
June 12	*Monday.* Senior Class Day. Inter-Society Banquet and Reunions.
June 13	*Tuesday.* Alumni Day. Meeting of Board of Trustees.
June 14	*Wednesday.* Commencement Day.

TABLE OF CONTENTS

PART ONE PAGE

Board of Trustees 6
Committees of the Trustees 9
Officers of Administration 10
Officers of Instruction 12
Faculty Committees 31

PART TWO

The University 37
Grounds and Buildings 42
Admission 54
Expenses 67
Pecuniary Aid 70
Medals and Prizes 74
Regulations 76
Student Government 85
Reserve Officers Training Corps 87
Public Lectures 90
University Organizations 95
The Associations of the Alumni 102

PART THREE

College of Liberal Arts 113
School of Applied Science 120
School of Education 131
School of Commerce 143
School of Public Welfare 156
Graduate School 160
School of Law 170
School of Medicine 179
School of Pharmacy 191
Summer School 200
Bureau of Extension 241

PART FOUR

Courses of Instruction 249

PART FIVE

Commencement 343
List of Students 349
Index 421

PART ONE—OFFICERS

BOARD OF TRUSTEES
OFFICERS OF ADMINISTRATION
OFFICERS OF INSTRUCTION
FACULTY COMMITTEES

TRUSTEES

CAMERON MORRISON, Governor, President *ex officio* of the Board of Trustees.

EUGENE CLYDE BROOKS, Superintendent of Public Instruction, member *ex officio* of the Board of Trustees.

ROBERT D. W. CONNOR, Secretary.

MEMBERS OF THE BOARD
1921*

Thomas Hall Battle	Nash
James McEntire Carson	Rutherford
Frederick Jackson Coxe	Anson
Willie Reid Dalton	Rockingham
Claudius Dockery	Montgomery
Rufus Alexander Doughton	Alleghany
William Nash Everett	Richmond
Ephraim Lash Gaither	Davie
Thomas Jackson Gold	Guilford
James Alexander Gray	Forsyth
John Sprunt Hill	Durham
Charles Andrew Jonas	Lincoln
Josiah Crudup Kittrell	Vance
Julian Smith Mann	Hyde
George Badger McLeod	Robeson
John Henry McMullan, Jr.	Chowan
Haywood Parker	Buncombe
John Ledgerwood Patterson	Halifax
John Henry Pearson, Jr	Burke
Willie Mangum Person	Franklin
Augustus Hobson Price	Rowan
James Dick Proctor	Robeson
Alfred Moore Scales	Guilford
D. Matt Thompson	Iredell
Clement Gillespie Wright	Guilford

* The legal term of office expires November 30th of the year indicated.

1923

KELLY EDWIN BENNETT	Swain
THOMAS CONTEE BOWIE	Ashe
CHASE BRENIZER	Mecklenburg
BENNEHAN CAMERON	Durham
ROBERT D. W. CONNOR	Wake
JULIUS FLETCHER DUNCAN	Carteret
ADOLPHUS HILL ELLER	Forsyth
JOHN WILLIAM FRIES	Forsyth
GEORGE KENNETH GRANTHAM	Harnett
CHARLES FELIX HARVEY	Lenoir
WILLIAM LANIER HILL	Duplin
GEORGE ALLAN HOLDERNESS	Edgecombe
SAMUEL RICHARD HOYLE	Lee
GRAHAM KENAN‡	New Hanover
JOHN C. LAMB	Martin
RICHARD HENRY LEWIS	Wake
ADDISON GOODLOE MANGUM	Gaston
JAMES SMITH MANNING	Wake
JOHN ARCHIBALD PARKER	Mecklenburg
GEORGE MOORE PRICHARD	Madison
ROBERT LEE SMITH	Stanly
WALTER FRANK TAYLOR	Wayne
THOMAS DAVIS WARREN	Craven
JOHN KENYON WILSON	Pasquotank
STANLEY WINBORNE	Hertford

1925

ERIC ALONZO ABERNETHY†	Orange
DAVID COLIN BARNES	Hertford
JOHN GRAY BLOUNT‡	Beaufort
PERRIN BUSBEE	Wake
JULIAN SHAKESPEARE CARR	Durham
JOHN SOMERVILLE CUNINGHAM	Durham
JOSEPHUS DANIELS	Wake
WILLIAM DUNN, JR.	Craven
AUGUSTUS WASHINGTON GRAHAM	Granville
GEORGE CHANCELLOR GREEN	Halifax
HARRY PERCY GRIER	Iredell
JOHN BRYAN GRIMES	Pitt
LUTHER THOMPSON HARTSELL	Cabarrus

† Resigned.
‡ Died.

RUFUS LAFAYETTE HAYMORE	Surry
JOHN WETMORE HINSDALE, JR.	Wake
FRANKLIN P. HOBGOOD	Granville
WILLIAM STAMPS HOWARD	Edgecombe
ALEXANDER LONG JAMES	Scotland
PAUL JONES LONG	Northampton
JOHN HALL MANNING	Lenoir
ANGUS WILTON MCLEAN	Robeson
GEORGE MCNEILL ROSE	Cumberland
JAMES SPRUNT	New Hanover
GEORGE STEPHENS	Mecklenburg
JULIEN KNOX WARREN	Jones

1927

BENJAMIN LEONIDAS BANKS	Gates
VICTOR SILAS BRYANT*	Durham
WILLIAM HYSLOP SUMNER BURGWYN	Northampton
WILLIAM PRESTON BYNUM	Guilford
JOHN WASHINGTON GRAHAM	Orange
MARMADUKE JONES HAWKINS*	Warren
ROBERT STUART HUTCHINSON	Mecklenburg
JAMES LEE HYATT	Yancey
BENJAMIN KITTRELL LASSITER	Granville
STAHLE LINN	Rowan
FRANK LINNEY	Watauga
WALTER MURPHY	Rowan
RICHARD SMITH NEAL*	Washington
HENRY ALLISON PAGE	Moore
ROBERT BURWELL REDWINE	Union
WILLIAM CAIN RUFFIN	Rockingham
ALEXANDER ABEL SHUFORD, JR.	Catawba
CHARLES LEE SMITH	Wake
EUGENE JACKSON TUCKER	Person
ZEB VANCE WALSER	Davidson
LESLIE WEIL	Wayne
CHARLES WHEDBEE	Perquimans
JOHN NESTOR WILSON	Guilford
FRANCIS DONNELL WINSTON	Bertie
ALBERT EDGAR WOLTZ	Gaston

* Died.

COMMITTEES OF THE TRUSTEES

Executive Committee

CAMERON MORRISON, *ex officio, Chairman*

**1921:* E. C. BROOKS, CLAUDIUS DOCKERY, J. W. GRAHAM, J. B. GRIMES, WALTER MURPHY.

**1922:* R. H. LEWIS, C. L. SMITH, CHARLES WHEDBEE, J. S. MANNING, F. D. WINSTON.

**1923:* V. S. BRYANT,† W. P. BYNUM, J. S. CARR, JOSEPHUS DANIELS, R. D. W. CONNOR.

Visiting Committee

**1921:* J. C. KITTRELL, C. G. WRIGHT.
**1922:* Z. V. WALSER, STANLEY WINBORNE.
**1923:* W. M. PERSON, THOMAS H. BATTLE.

---

* Term expires.
† Died.

OFFICERS OF ADMINISTRATION

THE UNIVERSITY

Harry Woodburn Chase, Ph.D., LL.D., President.
Walter Dallam Toy, M.A., Secretary of the Faculty.
Charles Thomas Woollen, Business Manager.
Julius Algernon Warren, Treasurer and Bursar.
Thomas James Wilson, Jr., Ph.D., Registrar.
Francis Foster Bradshaw, A.B., Dean of Students.
William McKeithan Fetzer, A.B., Director of Athletics.

THE COLLEGES AND SCHOOLS

George Howe, Ph.D., Dean of the College of Liberal Arts.
Andrew Henry Patterson, A.M., Dean of the School of Applied Science.
Marcus Cicero Stephens Noble, Dean of the School of Education.
Dudley deWitt Carroll, M.A., Dean of the School of Commerce.
Edwin Greenlaw, Ph.D., Dean of the Graduate School.
Lucius Polk McGehee, A.B., Dean of the School of Law.
Isaac Hall Manning, M.D., Dean of the School of Medicine.
Edward Vernon Howell, A.B., Ph.G., Dean of the School of Pharmacy.
Mrs. Marvin Hendrix Stacy, Adviser to Women.

THE LIBRARY

Louis Round Wilson, Ph.D., Librarian.
Charles Melville Baker, A.M., B.L.S., Assistant Librarian.
Cornelia Spencer Love, A.B., B.L.S., In charge of Orders and Accessions.
Rachel Agnes Harris, Ph.M., B.L.S., Cataloger.
Mary Lindsay Thornton, In charge of the North Carolina Collection.
Alma Irene Stone, A.B., In charge of Periodicals and Bindings.
Ione Lewith Markham, Secretary to the Librarian.
Robert Edwin Boyd, Student Assistant.
Roy Eugene Brown, Student Assistant.
William Burrus Harrell, Student Assistant.
David Reid Hodgin, Student Assistant.

Charles Wiley Phillips, Student Assistant.
Wilbur White Stout, Student Assistant.
Leo Deaton Summey, Student Assistant.

THE SUMMER SCHOOL

Nathan Wilson Walker, A.B., Director.

THE BUREAU OF EXTENSION

Louis Round Wilson, Ph.D., Director.
Edgar Ralph Rankin, A.M., Assistant Director.
Chester DeForest Snell, B.H., B.S., Assistant Director.

THE SCHOOL OF PUBLIC WELFARE

Howard Washington Odum, Ph.D., Director.

THE GYMNASIUM

Robert Baker Lawson, M.D., Director.
Corydon Perry Spruill, Jr., A.B., Assistant in the Gymnasium.
Joseph Arrington Person, Assistant in the Gymnasium.

THE INFIRMARY

Eric Alonzo Abernethy, M.D., University Physician.
Flora M. Rice, R.N., Head Nurse.
Margaret McGuire, R.N., Assistant Nurse.

YOUNG MEN'S CHRISTIAN ASSOCIATION

Robert William Wunsch, A.B., General Secretary.

OFFICERS OF INSTRUCTION

HARRY WOODBURN CHASE, Ph.D., LL.D., President.

A. B. Dartmouth College, 1904; A.M., Dartmouth College, 1908; Director of the Clinic for Subnormal Children, Clark University, 1909-1910; Ph.D., *ibid.*, 1910; Professor of Psychology, University of North Carolina, 1910-1919; Acting Dean of the College of Liberal Arts, *ibid.*, October, 1918-January, 1919; Chairman of the Faculty, *ibid.*, January, 1919-June, 1919; President, *ibid.*, 1919—; LL.D., Lenoir College (N. C.), 1920; LL.D., Wake Forest College, 1920.

FRANCIS PRESTON VENABLE, Ph.D., D.Sc., LL.D., Kenan Professor of Chemistry

Student, University of Virginia, 1874-1879; University of Bonn, 1879-1880; A.M., Ph.D., University of Goettingen, 1881; Student, University of Berlin, 1889; LL.D., University of Pennsylvania, 1901; D.Sc., Lafayette College, 1902; LL.D., University of South Carolina, 1905; LL.D., University of Alabama, 1906; LL.D., Jefferson Medical College, 1913; Professor of Chemistry, University of North Carolina, 1880-1918; President, *ibid.*, 1900-1914; Kenan Professor of Chemistry, *ibid.*, 1918—.

WALTER DALLAM TOY, M.A., Professor of the Germanic Languages and Literatures.

M.A., University of Virginia, 1882; Student, University of Leipzig, 1882-1883; University of Berlin, 1883-1885; College de France, 1885; Professor of the Germanic Languages and Literatures, University of North Carolina, 1885—; Student, University of Berlin, 1910-1911.

WILLIAM CAIN, A.M., LL.D., Kenan Professor Emeritus of Mathematics.

A.M., North Carolina Military Polytechnic Institute, 1866; Professor of Mathematics and Engineering, Carolina Military Institute, 1874-1879; Professor of Mathematics and Engineering, South Carolina Military Academy, 1882-1889; Professor of Mathematics, University of North Carolina, 1889-1918; Kenan Professor of Mathematics, *ibid.*, 1918-1920; LL.D., The University of South Carolina, 1916; Kenan Professor Emeritus of Mathematics, University of North Carolina, 1920—.

Henry Horace Williams, A.M., B.D., Kenan Professor of Philosophy.

A.B., A.M., University of North Carolina, 1883; Professor of Greek and German, Trinity College (N. C.), 1885; B.D., Yale University, 1888; Fellow, Harvard University, 1889; Professor of Philosophy, University of North Carolina, 1890-1920; Kenan Professor of Philosophy, *ibid.*, 1920—.

Henry Van Peters Wilson, Ph.D., Kenan Professor of Zoology.

A.B., Johns Hopkins University, 1883; Fellow, *ibid.*, 1887-1889; Ph.D., *ibid.*, 1888; Professor of Biology, University of North Carolina, 1891-1904; Student, University of Berlin, 1902-1903; Professor of Zoology, University of North Carolina, 1904-1918; Kenan Professor of Zoology, *ibid.*, 1918—.

*Collier Cobb, A.M., D.Sc., Professor of Geology and Mineralogy.

A. B., Harvard University, 1889; A.M., *ibid.*, 1894; Assistant in Geology, *ibid.*, 1888-1890; Instructor in Geology, Massachusetts Institute of Technology, 1890-1892; Instructor in Geology, Harvard Summer School, 1891; Assistant Professor of Geology, University of North Carolina, 1892-1893; Professor of Geology and Mineralogy, *ibid.*, 1893—; D.Sc., Wake Forest College, 1917.

Charles Staples Mangum, A.B., M.D., Professor of Anatomy.

A.B., University of North Carolina, 1891; M.D., Jefferson Medical College, 1894; Assistant and Demonstrator, *ibid.*, 1894-1895; Graduate Student, University of Chicago, 1906; Professor of Anatomy, University of North Carolina, 1896—; Student, Harvard University, 1912-1913.

Edward Vernon Howell, A.B., Ph.G., Professor of Pharmacy and Dean of the School of Pharmacy.

A.B., Wake Forest College, 1892; Ph.G., Philadelphia College of Pharmacy, 1894; Professor of Pharmacy and Dean of the School of Pharmacy, University of North Carolina, 1897—.

Marcus Cicero Stephens Noble, Professor of Pedagogy and Dean of the School of Education.

Student, Davidson College and University of North Carolina; Commandant, Bingham School, 1880-1883; Superintendent of

* Absent on leave 1920-1921 on the Kenan Foundation.

Schools, Wilmington, N. C., 1883-1898; Professor of Pedagogy, University of North Carolina, 1898—; Dean of the School of Education, *ibid.*, 1913—.

ISAAC HALL MANNING, M.D., Professor of Physiology and Dean of the School of Medicine.

Student, University of North Carolina, 1882-1886; Assistant in Chemistry, *ibid.*, 1886; M.D., Long Island College of Medicine, 1897; Graduate Student, University of Chicago, 1901, 1903; Harvard University, 1902, 1906; Professor of Physiology, University of North Carolina, 1901—; Dean of the School of Medicine, *ibid.*, 1905—.

GEORGE HOWE, Ph.D., Professor of the Latin Language and Literature and Dean of the College of Liberal Arts.

A.B., Princeton University, 1897; A.M., Ph.D., University of Halle, 1903; Student, Oxford University, 1903; Professor of the Latin Language and Literature, University of North Carolina, 1903—; Student, American School of Classical Studies at Rome, 1912-1913; Dean of the College of Liberal Arts, University of North Carolina, 1919—.

JOSEPH HYDE PRATT, Ph.D., Professor of Economic Geology.

Ph.B., Yale University, 1893; Assistant in Chemistry, *ibid.*, 1894; Assistant in Mining, *ibid.*, 1895; Instructor in Mining, Harvard Summer School, 1895; Ph.D., Yale University, 1896; Instructor in Mineralogy, *ibid.*, 1896-1897; Lecturer on Economic Geology, University of North Carolina, 1899-1904; Professor of Economic Geology, *ibid.*, 1904—; State Mineralogist, 1897-1906; State Geologist, 1906—.

*NATHAN WILSON WALKER, A.B., Professor of Secondary Education and Director of the Summer School.

A.B., University of North Carolina, 1903; Superintendent of Schools, Ashboro, N. C., 1903-1905; State Inspector of Public High Schools, 1905-1920; Professor of Secondary Education, University of North Carolina, 1905—.

WILLIAM DEBERNIERE MACNIDER, M.D., Kenan Professor of Pharmacology.

Assistant in Biology, University of North Carolina, 1899-1900; Assistant in Anatomy, *ibid.*, 1900-1901; M.D., *ibid.*, 1903; Student,

* Absent on leave 1920-1921.

University of Chicago, 1906, 1907, 1908; Professor of Pharmacology, University of North Carolina, 1905-1918; Kenan Professor of Pharmacology, *ibid.*, 1918—.

William Chambers Coker, Ph.D., Kenan Professor of Botany.
B.S., University of South Carolina, 1894; Ph.D., Johns Hopkins University, 1901; Student, University of Bonn, 1901-1902; Associate Professor of Botany, University of North Carolina, 1902-1908; Professor of Botany, *ibid.*, 1908-1920; Kenan Professor of Botany, *ibid.*, 1920—.

Archibald Henderson, Ph.D., D.C.L., Professor of Pure Mathematics.
A.B., University of North Carolina, 1898; A.M., *ibid.*, 1899; Instructor in Mathematics, *ibid.*, 1898-1902; Student University of Chicago, 1901; Ph.D., University of North Carolina, 1902; Fellow and Tutor in Mathematics, University College and University of Chicago, 1902-1903; Associate Professor of Mathematics, University of North Carolina, 1902-1908; Professor of Pure Mathematics, *ibid.*, 1908—; Student, Cambridge University, University of Berlin, the Sorbonne, 1910-1911; Ph.D., University of Chicago, 1915; D.C.L., The University of the South, 1917.

Joseph Gregoire de Roulhac Hamilton, Ph.D., Kenan Professor of History and Government.
M.A., University of the South, 1900; Ph.D., Columbia University, 1906; Associate Professor of History, University of North Carolina, 1906-1908; Professor of History, *ibid.*, 1908-1920; Kenan Professor of History and Government, 1920—.

Andrew Henry Patterson, A.M., Professor of Physics and Dean of the School of Applied Science.
Ph.B., B.E., University of North Carolina, 1891; A.B., Harvard University, 1892; A.M., *ibid.*, 1893; Instructor in Physics, University of Georgia, 1894-1897; Adjunct Professor of Physics and Electrical Engineering, *ibid.*, 1897-1898; Professor of Physics and Astronomy, *ibid.*, 1898-1908; Student, University of Berlin and Charlottenburg Technische Hochschule, 1905-1906; Student, Cambridge University, 1906; Professor of Physics, University of North Carolina, 1908—; Dean of the School of Applied Science, *ibid.*, 1911—.

HENRY MCGILBERT WAGSTAFF, Ph.D., Professor of History.
Ph.B., University of North Carolina, 1899; Professor of Mathematics, Rutherford College (N. C.), 1900-1902; Ph.D., Johns Hopkins University, 1906; Acting Professor of Economics and History, Alleghany College, 1906-1907; Associate Professor of History, University of North Carolina, 1907-1909; Professor of History, *ibid.*, 1909—.

PATRICK HENRY WINSTON, Professor of Law.
Student, University of Texas, 1897-1898; University of North Carolina, 1899-1900; Graduate, United States Military Academy, 1905; Student, University of North Carolina School of Law, 1905; Professor of Law, *ibid.*, 1909—; Student, University of Michigan, 1910.

*WILLIAM MORTON DEY, Ph.D., Professor of the Romance Languages and Literatures.
B.A., M.A., University of Virginia, 1902; Student in Paris, 1903; A.M., Harvard University, 1904; Austin Teaching Fellow, *ibid.*, 1905-1906; Ph.D., *ibid.*, 1906; Student in Spain and Italy, 1906; Assistant Professor of Romance Languages, University of Missouri, 1906-1909; Professor of Romance Languages, University of North Carolina, 1909—.

LUCIUS POLK MCGEHEE, A.B., Professor of Law and Dean of the School of Law.
A.B., University of North Carolina, 1887; Student, School of Law, *ibid.*, 1890-1891; Professor of Law, *ibid.*, 1904—; Dean of the School of Law, *ibid.*, 1910—.

ATWELL CAMPBELL MCINTOSH, A.M., Professor of Law.
A.B., Davidson College, 1881; A.M., *ibid.*, 1887; Professor of Law, Trinity College (N. C.), 1904-1910; Professor of Law, University of North Carolina, 1910—.

ALVIN SAWYER WHEELER, Ph.D., Professor of Organic Chemistry.
A.B., Beloit College, 1890; Student, University of Chicago, 1895; Student, Cornell University, 1897; A.M., Harvard University, 1897; Assistant in Chemistry, *ibid.*, 1897-1900; Ph.D., *ibid.*, 1900; Associate Professor of Chemistry, University of North Carolina, 1900-1912; Professor of Organic Chemistry, *ibid.*, 1912—; Student, University of Berlin, University of Bonn, Swiss Federal Polytechnic, 1910-1911.

---

* Absent on leave 1920-1921 on the Kenan Foundation.

Louis Round Wilson, Ph.D., Kenan Professor of Library Administration.

A.B., University of North Carolina, 1899; Librarian, *ibid.*, 1901—; A.M., *ibid.*, 1902; Ph.D., *ibid.*, 1905; Associate Professor of Library Administration, *ibid.*, 1908-1912; Student, Columbia University, 1910; Professor of Library Administration, University of North Carolina, 1912-1920; Director of the Bureau of Extension, *ibid.*, 1914—; Kenan Professor of Library Administration, *ibid.*, 1920—.

Parker Hayward Daggett, S.B., Professor of Electrical Engineering.

Assistant in Electrical Engineering, Harvard University, 1908-1909; S.B., *ibid.*, 1910; Acting Professor of Electrical Engineering, University of North Carolina, 1910; Associate Professor of Electrical Engineering, *ibid.*, 1910-1913; Professor of Electrical Engineering, *ibid.*, 1913—; Acting Dean of the School of Applied Science, *ibid.*, 1915-1916.

James Munsie Bell, Ph.D., Smith Professor of Chemistry.

B.A., University of Toronto, 1902; M.A., *ibid.*, 1905; Assistant in Chemistry, Cornell University, 1902-1903; Graduate Scholar in Chemistry, *ibid.*, 1903-1904; Sage Fellow in Chemistry, *ibid.*, 1904-1905; Ph.D., *ibid.*, 1905; Associate Professor of Physical Chemistry, University of North Carolina, 1910-1913; Professor of Physical Chemistry, *ibid.*, 1913-1919; Smith Professor of Chemistry, *ibid.*, 1919—.

Edwin Greenlaw, Ph.D., Kenan Professor of English and Dean of the Graduate School.

A.B., Northwestern University, 1897; A.M., *ibid.*, 1898; A.M., Harvard University, 1903; Ph.D., *ibid.*, 1904; Instructor in English, Northwestern University, 1898-1902, 1904-1905; Instructor in English, University of Chicago, 1904-1907; Professor of English, Adelphi College, 1905-1913; Professor of English, University of North Carolina, 1913-1918; Kenan Professor of English, *ibid.*, 1918—; Dean of the Graduate School, *ibid.*, 1920—.

Lester Alonzo Williams, A.M., Pd.D., Professor of School of Administration.

A.B., Dartmouth College, 1903; A.M., New York University, 1909; Pd.D., *ibid.*, 1912; Supervisor of Schools and Principal of High Schools in Massachusetts and New Hampshire, 1903-1912; Super-

vising Principal, Leonia, N. J., 1913; Lecturer, Brooklyn Institute of Arts and Sciences, 1913; Professor of School Administration, University of North Carolina, 1913—.

JAMES BELL BULLITT, A.M., M.D., Professor of Pathology.

A.B., Washington and Lee University, 1894; A.M., *ibid.*, 1895; M.D., University of Virginia, 1897; Demonstrator of Anatomy, *ibid.*, 1898-1903; Professor of Anatomy and Pathology, University of Mississippi, 1903-1913; Professor of Histology and Pathology, University of North Carolina, 1913-1920; Professor of Pathology, *ibid.*, 1920—.

THOMAS JAMES WILSON, JR., Ph.D., Registrar.

A.B., University of North Carolina, 1894; A.M., *ibid.*, 1896; Ph.D., *ibid.*, 1898; Instructor in Latin and Greek, *ibid.*, 1899-1901; Instructor in Latin, *ibid.*, 1901-1902; Student, University of Chicago, 1903, 1906; Associate Professor of Latin, University of North Carolina, 1902-1915; Registrar, *ibid.*, 1908—.

EUGENE CUNNINGHAM BRANSON, A.M., Litt.D., Kenan Professor of Rural Social Science.

A.M., Trinity College (N. C.), 1894; A.M., Peabody Normal College (Tenn.), 1899; President, Georgia State Normal School, 1900-1912; Professor of Rural Economics and Sociology, *ibid.*, 1912-1914; Professor of Rural Economics and Sociology, University of North Carolina, 1914-1919; Kenan Professor of Rural Economics and Sociology, *ibid.*, 1919-1920; Kenan Professor of Rural Social Science, *ibid.*, 1920—; Litt.D., University of Georgia, 1919.

DUDLEY DEWITT CARROLL, M.A., Professor of Economics and Dean of the School of Commerce.

A.B., Guilford College, 1907; A.B., Haverford College, 1908; M.A., Columbia University, 1915; Professor of History and Economics, Guilford College, 1909-1914; Assistant Professor of Economics, Hunter College, 1916-1918; Professor of Economics, University of North Carolina, 1918—; Acting Dean of the School of Commerce, *ibid.*, 1919-1920; Dean of the School of Commerce, *ibid.*, 1920.

FREDERICK HENRY KOCH, A.M., Professor of Dramatic Literature.

A.B., Ohio Wesleyan University, 1900; A.M., Harvard University, 1909; Instructor in English, University of North Dakota, 1905-1906; Assistant Professor of English, *ibid.*, 1907-1909; Associate Professor of Dramatic Literature, *ibid.*, 1909-1917; Professor of

Dramatic Literature, *ibid.*, 1917-1918; Visiting Professor, University of California, Summer Session, 1910; Exchange Professor, University of Manitoba, 1918; Professor of Dramatic Literature, University of North Carolina, 1918—.

John Harris Mustard, B.S. in E.E., Professor of Electrical Engineering.

B.S. in E.E., University of Michigan, 1904; Assistant in Electro-Therapeutics, University of Michigan, 1903-1904; in charge of instruction of graduate students in engineering, Westinghouse Electric and Manufacturing Company, 1909-1918; Professor of Electrical Engineering, University of North Carolina, 1918—.

John Emery Lear, E.E., Professor of Engineering Sciences.

B.S. in E.E., Virginia Polytechnic Institute, 1901; Student, Cornell University, 1901-1902; Instructor in Physics and Electrical Engineering, Texas Agricultural and Mechanical College, 1905-1907; Assistant Professor of Electrical Engineering, *ibid.*, 1907-1909; E.E., *ibid.*, 1909; Associate Professor of Electrical Engineering, *ibid.*, 1909-1913; Professor of Physics, Norwich University, 1913-1914; Professor of Electrical Engineering, *ibid.*, 1913-1917; Professor of Engineering Sciences, University of North Carolina, 1918—.

Major Frederic William Boye, Professor of Military Science and Tactics, R.O.T.C.

United States Military Academy, West Point, N. Y., 1911-1915; Major, Cavalry, U. S. A.; Professor of Military Science and Tactics, University of North Carolina, 1919—.

*Norman Foerster, A.M., Professor of English.

A.B., Harvard University, 1910; Instructor in English, Harvard Summer School, 1910, 1913; Student, Harvard University, 1910-1911; Instructor in English, University of Wisconsin, 1911-1914; A.M., *ibid.*, 1912; Associate Professor of English, University of North Carolina, 1914-1919; Professor of English, *ibid.*, 1919—.

James Holly Hanford, Ph.D., Professor of English.

A.B., University of Rochester, 1904; Ph.D., Harvard University, 1909; Assistant in English, *ibid.*, 1908; Instructor in English, *ibid.*, 1910-1913; Assistant Professor of English, Simmons College, 1909-1914; Associate Professor of English, University of North Carolina, 1914-1919; Professor of English, *ibid.*, 1919—.

* Absent on leave 1920-1921.

JOHN GROVER BEARD, Ph.G., Professor of Pharmacy.

Assistant in Pharmacy, University of North Carolina, 1908-1909; Ph.G., *ibid.*, 1909; Instructor in Pharmacy, *ibid.*, 1909-1914; Assistant Professor of Pharmacy, *ibid.*, 1914-1917; Associate Professor of Pharmacy, *ibid.*, 1917-1919; Professor of Pharmacy, *ibid.*, 1919—.

EDGAR WALLACE KNIGHT, Ph.D., Professor of Rural Education.

A.B., Trinity College (N. C.), 1909; A.M., *ibid.*, 1911; Master in History, Trinity Park School, 1909-1911; Fellow in Education, Columbia University, 1912-1913; Ph.D., *ibid.*, 1913; Assistant Professor of Education, Trinity College (N. C.), 1913-1916; Professor of Education, *ibid.*, 1916-1917; Superintendent of Wake County Schools, 1917-1918; Professor of Rural Education, University of North Carolina, 1919—.

PAUL JOHN WEAVER, B.A., A.A.G.O., Professor of Music.

B.A., University of Wisconsin, 1911; Graduate Student, *ibid.*, 1913-1915; Director of Music, Racine College, 1911-1912; Supervisor Public School Music,, Madison, Wis., 1915; Supervisor Public School Music, St. Louis, Mo., 1916-1919; A.A.G.O., University of New York, 1918; Instructor in Harmony, American Institute Normal Methods, Northwestern University Summer School, 1919; Professor of Music, University of North Carolina, 1919—.

WILLIAM FREDERICK PROUTY, Ph.D., Professor of Stratigraphic Geology.

B.S., Syracuse University, 1903; M.S., *ibid.*, 1904; Ph.D., Johns Hopkins University, 1906; Associate Professor of Geology, University of Alabama, 1906-1912; Professor of Geology, *ibid.*, 1912-1919; Chief Assistant, Alabama Geological Survey, 1906-1919; Professor of Stratigraphic Geology, University of North Carolina, 1919—.

HOWARD WASHINGTON ODUM, Ph.D., Kenan Professor of Sociology and Director of the School of Public Welfare.

A.B., Emory College, 1904; Co-Principal, Toccopola School (Miss.), 1904-1905; A.M., University of Mississippi, 1906; Instructor, *ibid.*, 1905-1908; Ph.D., Clark University, 1909; Ph.D., Columbia University, 1910; Research Expert, Philadelphia Bureau of Municipal Research, 1910-1913; Associate Professor of Educational Sociology, University of Georgia, 1913-1915; Professor of Educational Sociology and Rural Education, *ibid.*,

1915-1919; Superintendent of the University Summer School for Teachers, *ibid.*, 1916-1919; Director of Bureau of Home Service, American Red Cross, Southern Division, 1918; Professor of Educational Sociology and Dean of the School of Liberal Arts, Emory University, 1919-1920; Kenan Professor of Sociology and Director of the School of Public Welfare, University of North Carolina, 1920—.

William Stanley Bernard, A.M., Professor of Greek.

Student, Episcopal Theological Seminary (Va.), 1893-1895; A.B., University of North Carolina, 1900; Librarian, *ibid.*, 1900-1901; Instructor in Greek, *ibid.*, 1901-1906; A.M., *ibid.*, 1904; Associate Professor of Greek, *ibid.*, 1906-1920; Student, University of Chicago, 1906; Columbia University, 1909, 1910, 1911; Professor of Greek, University of North Carolina, 1920—.

John Manning Booker, Ph.D., Professor of English.

A.B., University of Alabama, 1910; Teaching Fellow in English, 1905-1909; Student, University of Munich, 1904-1905; Student, University of Heidelberg, 1903-1904, 1905, 1909, 1910, 1911; Ph.D., *ibid.*, 1912; Associate Professor of English, University of North Carolina, 1909-1920; Professor of English, *ibid.*, 1920—.

Oliver Towles, Ph.D., Professor of French.

A.B., University of Virginia, 1906; Student, Johns Hopkins University, 1906-1909; Student in France, 1908; Ph.D., Johns Hopkins University, 1912; Associate Professor of Romance Languages, University of North Carolina, 1909-1920; Professor of French, *ibid.* 1920—.

Thomas Felix Hickerson, A.M., S.B., Professor of Civil Engineering.

Ph.B., University of North Carolina, 1904; Instructor in Mathematics. *ibid.*, 1905-1908; A.M., *ibid.*, 1907; S.B., Massachusetts Institute of Technology, 1909; Student, Columbia University, 1911; Associate Professor of Civil Engineering, University of North Carolina, 1910-1920; Professor of Civil Engineering, *ibid.*, 1920—.

William Whatley Pierson, Jr., Ph.D., Professor of History and Government.

A.B., Johns Hopkins University, 1901; Student, *ibid.*, 1901-1903; *ibid.*, 1910-1911; A.M., *ibid.*, 1911; A.M., Columbia University, 1912; Graduate Student, *ibid.*, 1911-1913; Assistant in History,

ibid., 1913-1914; Instructor in History, *ibid.*, 1914-1915; Ph.D., *ibid.*, 1916; Instructor in History, University of North Carolina, 1915-1917; Assistant Professor of History, *ibid.*, 1917-1918; Associate Professor of History, *ibid.*, 1918-1920; Professor of History and Government, *ibid.*, 1920—.

JOHN FREDERICK DASHIELL, Ph.D., Professor of Psychology.
B.S., Moores Hill College, 1908; B.L., *ibid.*, 1909; A.M., Columbia University, 1910; Assistant in Philosophy, *ibid.*, 1910-1913; Ph.D., *ibid.*, 1913; Professor of Education, Waynesburg College, 1913-1914; Instructor in Philosophy, Princeton University, 1914-1915; Instructor in Philosophy, University of Minnesota, 1915-1916; Instructor in Psychology, *ibid.*, 1916-1917; Assistant Professor of Psychology, Oberlin College, 1917-1919; Associate Professor of Psychology, University of North Carolina, 1919-1920; Professor of Psychology, *ibid.*, 1920—.

JESSE FREDERICK STEINER, Ph.D., Professor of Social Technology.
A.B., Heidelberg University (Ohio), 1901; Student, Heidelberg Theological Seminary (Ohio), 1902-1905; Professor of English Literature, North Japan College (Japan), 1905-1912; A.M., Harvard University, 1913; Ph.D., University of Chicago, 1915; Special Instructor in Practical Sociology, *ibid.*, 1915; Lecturer on Missions, McCormick Theological Seminary, 1916; Assistant Professor of Social Science, University of Cincinnati, 1917-1918; Director Educational Service, American National Red Cross, 1918-1920; Professor of Social Technology, University of North Carolina, 1920—.

FRANCIS FOSTER BRADSHAW, A.B., Dean of Students.
A.B., University of North Carolina, 1916; Dean of Students, *ibid.*, 1920—.

ROBERT BAKER LAWSON, M.D., Associate Professor of Anatomy.
Student, University of North Carolina, 1898-1900; M.D., University of Maryland, 1902; Instructor in Anatomy, University of North Carolina, 1905-1906; Demonstrator in Anatomy, *ibid.*, 1906-1908; Associate Professor of Anatomy, *ibid.*, 1908—.

GEORGE MCFARLAND MCKIE, A.M., Associate Professor of Public Speaking.
Graduate, Emerson College of Oratory, 1898; A.B., A.M., University of North Carolina, 1907; Student, Harvard University, 1907-1908; Instructor in English, University of North Carolina, 1899-1908; Associate Professor of Public Speaking, *ibid.*, 1908—.

Kent James Brown, Ph.D., Associate Professor of German.
A.B., Dickinson College, 1901; Ph.D., University of Pennsylvania, 1905; Student, University of Berlin, 1904-1905; Student, University of Munich, 1909-1911; Assistant in German, University of Pennsylvania, 1902-1904; Instructor in German, State University of Iowa, 1911-1912; Associate Professor of German, University of North Carolina, 1912—.

Sturgis Elleno Leavitt, Ph.D., Associate Professor of Spanish.
A.B., Bowdoin College, 1908; Student in France, 1911; Student, Harvard University, 1912-1913; A.M., *ibid.*, 1913; Instructor in Romance Languages, Northwestern University, 1913-1914; Instructor in Romance Languages, Harvard University, 1915-1917; Ph.D., *ibid.*, 1917; Assistant Professor of Romance Languages, University of North Carolina, 1917-1918; Associate Professor of Romance Languages, *ibid.*, 1918-1920; Sheldon Travelling Fellow (Harvard), in Peru, Bolivia, Chile, Argentina and Uruguay, 1919-1920; Associate Professor of Spanish, University of North Carolina, 1920—.

James Talmage Dobbins, Ph.D., Associate Professor of Chemistry.
A.B., University of North Carolina, 1911; A.M., *ibid.*, 1912; Ph.D., *ibid.*, 1914; Instructor in Chemistry, North Carolina State College of Agriculture and Engineering, 1914-1918; Associate Professor of Chemistry, University of North Carolina, 1918—.

Thorndike Saville, A.B., C.E., Associate Professor of Hydraulic and Sanitary Engineering.
A.B., Harvard University, 1914; B.S., Dartmouth College, 1914; C.E., *ibid.*, 1915; M.S., Harvard University, 1917; M.S., Mass. Inst. Technology, 1917; Field Assistant in Surveying, Dartmouth College, Summers of 1914, 1915, 1916; Assistant in Physics, Dartmouth College, 1914-1915; Assistant in Geology, Harvard University, 1915-1917; Assistant in Sanitary Engineering, *ibid.*, 1916-1917; Associate Professor of Hydraulic and Sanitary Engineering, University of North Carolina, 1919—.

Henry McCune Dargan, Ph.D., Associate Professor of English.
A.B., Mercer University, 1910; Student, University of California, 1910-1911; Student, University of Chicago, 1911; A.M., Harvard University, 1912; Ph.D., *ibid.*, 1914; Instructor in English, University of North Carolina, 1914-1917; Assistant Professor of English, *ibid.*, 1917-1920; Associate Professor of English, *ibid.*, 1920—.

JOHN WAYNE LASLEY, JR., Ph.D., Associate Professor of Mathematics.

A.B., University of North Carolina, 1910; Fellow in Mathematics, *ibid.*, 1910-1911; A.M., *ibid.*, 1911; Instructor in Mathematics, *ibid.*, 1911-1915, 1916-1918; Student, Johns Hopkins University, 1915-1916; Fellow by Courtesy in Mathematics, *ibid.*, 1915-1916; Assistant Professor of Mathematics, University of North Carolina, 1918-1920; Student, University of Chicago, 1917, 1918, 1919-1920; Fellow in Mathematics, *ibid.*, 1919-1920; Ph.D., *ibid.*, 1920; Associate Professor of Mathematics, University of North Carolina, 1920—.

ALLAN WILSON HOBBS, Ph.D., Associate Professor of Mathematics.

A.B., Guilford College, 1907; A.B., Haverford College, 1908; Instructor in Mathematics, Guilford College, 1909-1911; Professor of Mathematics, *ibid.*, 1913-1915; Ph.D., Johns Hopkins University, 1917; Instructor in Mathematics, University of North Carolina, 1917-1919; Assistant Professor of Mathematics, *ibid.*, 1919-1920; Associate Professor of Mathematics, *ibid.*, 1920—.

WALTER JEFFRIES MATHERLY, M.A., Associate Professor of Business Administration.

B.A., William Jewell College, 1915; M.A., Washington University, 1916; Fellow in Economics, University of Minnesota, 1916-1917; Assistant in Political Economy, University of Chicago, 1917-1918; Professor of Economics, University of Kentucky, Summer Session, 1919; Professor of Economics, Georgetown College (Ky.), February, 1919, to June, 1920; Associate Professor of Business Administration, University of North Carolina, 1920—.

WESLEY CRITZ GEORGE, Ph.D., Associate Professor of Histology and Embryology.

A.B., University of N[illegible]h Carolina, 1911; A.M., *ibid.*, 1912; Instructor in Zoology, i[illegible]., 1912-1916; Professor of Biology, Guilford College, 1916-1917 Hinton Mann Fellow, Princeton University, 1917-1918; Ph.D., [illegible]niversity of North Carolina, 1918; Adjunct Professor of Zoo[illegible]gy, University of Georgia, 1919; Associate Professor of Hi[illegible]logy and Embryology, University of Tennessee College of M[illegible]icine, 1919-1920; Associate Professor of Histology and Embryol[illegible]gy, University of North Carolina, 1920—.

Erle Ewart Peacock, M.B.A., Associate Professor of Accounting.

A.B., University of Georgia, 1914; M.B.A., Harvard University, 1916; Graduate Student, University of Chicago, 1916; Graduate Student, Columbia University, 1917; Adjunct Professor of Accounting and Industry, University of Georgia, 1916-1918; Associate Professor of Accounting, University of North Carolina, 1920—.

Otto Stuhlman, Jr., Ph.D., Associate Professor of Physics.

Assistant in Physics, University of Cincinnati, 1905-1907; B.A., *ibid.*, 1907; Assistant Instructor in Physics, University of Illinois, 1907-1909; M.A., *ibid.*, 1909; Experimental Science Fellow, Princeton University, 1909-1911; Ph.D., *ibid.*, 1911; Instructor in Physics, Stevens Institute of Technology, 1911-1912; Instructor in Physics, University of Pennsylvania, 1912-1918; Assistant Professor of Physics, State University of Iowa, 1918-1919; Assistant Professor of Physics, West Virginia University, 1919-1920; Associate Professor of Physics, University of North Carolina, 1920—.

George Kenneth Grant Henry, Ph.D., Assistant Professor of Latin.

A.B., Hamilton College, 1900; A.M., *ibid.*, 1904; Instructor in Mathematics, University of North Carolina, 1908-1909; Instructor in Latin, *ibid.*, 1909-1914; Ph.D., *ibid.*, 1914; Assistant Professor of Latin, *ibid.*, 1914—.

Gustave Adolphus Harrer, Ph.D., Assistant Professor of Latin.

A.B., Princeton University, 1910; Ph.D., *ibid.*, 1913; Instructor in Classics, *ibid.*, 1913-1915; Instructor in Latin, University of North Carolina, 1915-1918; Assistant Professor of Latin, *ibid.*, 1918—.

Herman Henry Staab, M.A., Assistant Professor of Romance Languages.

Student, University of Tubingen, 18[illegible]-1898; Student, University of Halle, 1899; Student, University of Geneva, 1900; In France, Italy and Spain, 1901-1905; Argentina and Brazil, 1906; Harvard University, 1910, Summer Session; [illegible]A., M.A., University of the South, 1912; Professor of French, [illegible]versity of the South, Summer Quarter, 1914; Professor of F[illegible]ance Languages, Converse College, 1913-1918; Professor of Fr[illegible]h, George Peabody College for Teachers, Summer Quarter, 1918; Assistant Professor of Romance Languages, University of North Carolina, 1918—.

FRANK PORTER GRAHAM, M.A., Assistant Professor of History.

A.B., University of North Carolina, 1909; Student of Law, *ibid.*, 1909-1910, 1912-1913; A.M., Columbia University, 1916; Instructor in History, University of North Carolina, 1914-1919; Dean of Students, *ibid.*, 1919-1920; Assistant Professor of History, *ibid.*, 1919—.

SAMUEL HUNTINGTON HOBBS, JR., A.M., Assistant Professor of Rural Economics and Sociology.

A.B., University of North Carolina, 1916; A.M., *ibid.*, 1917; Instructor in Rural Economics and Sociology, *ibid.*, 1916-1919; Assistant Professor of Rural Economics and Sociology, *ibid.*, 1919—.

CLARENCE ADDISON HIBBARD, M.A., Assistant Professor of English.

B.A., University of Wisconsin, 1909; Instructor in English, Government Middle Schools, Kagoshima, Japan, 1909-1911; Professor of English Language, Imperial College of Commerce, Nagasaki, Japan, 1911-1914; Graduate Student, University of Wisconsin, 1916-1917; Assistant in English, *ibid.*, 1916-1917; Assistant Professor of English, Miami University, 1917-1918; M.A., University of Wisconsin, 1919; Assistant Professor of English, University of North Carolina, 1919—.

LENOIR CHAMBERS, A.B., Assistant Professor of Journalism.

A.B., University of North Carolina, 1914; Student, Columbia University, School of Journalism, 1916-1917; Assistant Professor of Journalism, University of North Carolina, 1919—.

CHARLES MELVILLE BAKER, A.M., B.L.S., Assistant Professor of Library Administration.

A.B., Harvard University, 1910; A.M., *ibid.*, 1911; Instructor in English, Syracuse University, 1913-1915; B.L.S., New York State Library School, 1918; Assistant Professor of Library Administration, University of North Carolina, 1919—.

OSCAR OGBURN EFIRD, LL.B., Assistant Professor of Law.

A.B., Roanoke College, 1912; A.M., Princeton University, 1913; LL.B., Harvard University, 1919; Assistant Professor of Law, University of North Carolina, 1919—.

Arthur Simeon Winsor, A.M., Assistant Professor of Mathematics.

A.B., Mount Allison University, 1914; A.M., *ibid.*, 1915; Assistant in Mathematics, *ibid.*, 1913-1915; Instructor in Mathematics, Rice Institute, 1915-1917; Fellow in Mathematics, *ibid.*, 1915-1917; Instructor in Mathematics, Loomis Institute, 1917-1919; Assistant Professor of Mathematics, University of North Carolina, 1919—.

Norman Morton Paull, S.B., Assistant Professor of Drawing.

S.B., in Mechanical Engineering, Worcester Polytechnic Institute, 1893; Student, Northwestern University Medical School, 1896-1897; Student in Chemistry and Dyeing, New Bedford Textile School, 1913-1916; Graduate Student, *ibid.*, 1916-1917; Assistant Professor of Drawing, University of North Carolina, 1919—.

Charles Edward Green, A.M., Assistant Professor of Romance Languages.

A.B., Syracuse University, 1915; A.M., *ibid.*, 1916; Instructor in Romance Languages, *ibid.*, 1916-1918; Instructor in Spanish, University of Pennsylvania, 1918-1919; Assistant Professor of Modern Languages, University of Nebraska, 1919-1920; Assistant Professor of Romance Languages, University of North Carolina, 1920—.

William Flint Thrall, Ph.D., Assistant Professor of English.

A.B., McKendree College, 1901; A.M., *ibid.*, 1902; Professor of English, *ibid.*, 1909-1920; Registrar, ibid., 1915-1920; A.M., University of Chicago, 1915; Ph.D., *ibid.*, 1920; Assistant Professor of English, University of North Carolina, 1920—.

John Brooks Woosley, A.M., Assistant Professor of Economics.

A.B., Guilford College, 1912; A.B., Haverford College, 1913; A.M., *ibid.*, 1914; Professor of History and Economics, Guilford College, 1914-1917; Student, University of Toulouse (France), 1919; Student, Columbia University, 1920; Assistant Professor of Economics, University of North Carolina, 1920—.

Howard Russell Huse, Ph.B., Assistant Professor of Romance Languages.

Student, University of Dijon, France, 1910-1911; Ph.B., University of Chicago, 1913; Fellow in Romance Languages, *ibid.*, 1913; Assistant Instructor in Romance Languages, *ibid.*, 1914-1916; Assistant Professor of Romance Languages, Newcomb College, Tulane University, 1916-1918; Assistant Professor of Romance Languages, University of North Carolina, 1920—.

JOHN JAMES DAVIS, B.S., Assistant Professor of Romance Languages.

B.S., Virginia Polytechnic Institute, 1904; Graduate Student, *ibid.*, 1904-1905; Assistant in Modern Languages, *ibid.*, 1904-1906; Instructor in Modern Languages, *ibid.*, 1906-1910; Student, Columbia University, 1910; Associate Professor of Modern Languages, Virginia Polytechnic Institute, 1910-1917; Graduate Student, Johns Hopkins University, 1915-1916; Professor of Modern Languages, Virginia Polytechnic Institute, 1917-1920; Assistant Professor of Romance Languages, University of North Carolina, 1920—.

HENRY ROLAND TOTTEN, A.M., Instructor in Botany.

A.B., University of North Carolina, 1913; Assistant in Botany, *ibid.*, 1913-1914; A.M., *ibid.*, 1914; Student, University of Paris, 1919; Instructor in Botany, University of North Carolina, 1914—.

IRA WELBORN SMITHEY, M.S., Instructor in Chemistry.

B.S., University of North Carolina, 1918; M.S., *ibid.*, 1919; Instructor in Chemistry, *ibid.*, 1918—.

ISAAC VILAS GILES, M.S., Instructor in Chemistry.

B.S., University of North Carolina, 1918; Assistant in Chemistry, *ibid.*, 1916-1918; Instructor in Chemistry, *ibid.*, 1919—; M.S., *ibid.*, 1920—.

JOE BURTON LINKER, A.M., Instructor in Mathematics.

A.B., University of North Carolina, 1918; Instructor in Mathematics, *ibid.*, 1919—; A.M., *ibid.*, 1920.

JOHN THEODORE KRUMPELMANN, A.M., Instructor in German.

A.B., Tulane University, 1915; A.M., *ibid.*, 1916; Assistant and Teaching Fellow in German, *ibid.*, 1914-1916; A.M., Harvard University, 1917; Instructor in German, Lehigh University, 1917-1918; Instructor in German, University of North Carolina, 1919—.

CHARLES INTERVALE SILIN, S.B., Instructor in French.

Student, Harvard University, 1914-1917; Student, University of Lyons (France), 1919; Student, Harvard University, 1919; Instructor in French, University of North Carolina, 1919—; S.B., Harvard University, 1920.

JAMES BLAINE DAVIS, A.B., Instructor in Mathematics.

A.B., Wake Forest College, 1916; Instructor in Mathematics, University of North Carolina, 1919—.

Haywood Maurice Taylor, B.S., Instructor in Chemistry.
B.S., University of North Carolina, 1920; Instructor in Chemistry, *ibid.*, 1920—.

William Dougald MacMillan, 3d., A.M., Instructor in English.
A.B., University of North Carolina, 1918; Teaching Fellow in English, *ibid.*, 1919-1920; A. M., *ibid.*, 1920; Student, University of Chicago, 1920; Instructor in English, University of North Carolina, 1920—.

Harry Franklin Latshaw, A.B. in Ed., Instructor in Latin.
A.B. in Ed., University of North Carolina, 1920; Instructor in Latin, *ibid.*, 1920—.

Herman Glenn Baity, A.B., Instructor in Mathematics.
A.B., University of North Carolina, 1917; Student, University of Paris, 1919; Instructor in Mathematics, University of North Carolina, 1920—.

Walter Bryan Jones, A.M., Instructor in Mineralogy.
A.B., University of Alabama, 1918; Fellow in Mineralogy, *ibid.*, 1917-1918; Instructor in Mineralogy, *ibid.*, 1919-1920; A.M., *ibid.*, 1920; Instructor in Mineralogy, University of North Carolina, 1920—.

Almonte C. Howell, M.A., Instructor in English.
Undergraduate Assistant, Denison University, 1914-1917; A.B., *ibid.*, 1917; Professor of Mathematics and Education, Columbia College (Fla.), 1917-1918; M.A., Columbia University, 1920; Instructor in English, University of North Carolina, 1920—.

Charles Wellner Camp, A.M., Instructor in English.
Student, Rutgers College, 1914-1915; B.S., Columbia University, 1918; A.M., *ibid.*, 1920; Instructor in English, University of North Carolina, 1920—.

Frank John Haronian, A.B., Instructor in French.
A.B., College des Mechitharistes (Constantinople), 1908; Student, State Normal School (N. J.), 1915-1917; Student, Columbia University, 1919; Instructor in French, University of North Carolina, 1920—.

TEACHING FELLOWS, 1920-1921

THOMAS PUGH DAWSON, Ph.C., Teaching Fellow in Chemistry.
SAMUEL CLEMENT SMITH, A.M., Teaching Fellow in Chemistry.
PAUL REBER DAWSON, A.B., Teaching Fellow in Chemistry.
ABRAHAM MAURICE WOLFSON, B.S., Teaching Fellow in Chemistry.
RICHARD ARTHUR LINEBERRY, B.S., Teaching Fellow in Chemistry.
EDWIN SAMUEL LINDSEY, A.B., Teaching Fellow in English.
JOSEPH FELIX SPAINHOUR, JR., A.B., Teaching Fellow in English.
ALBERT PETTIGREW ELLIOTT, A.B., Teaching Fellow in English.
ROLAND PRINCE MCCLAMROCH, A.B., Teaching Fellow in English.
JOSIAH SMITH BABB, A.B., Teaching Fellow in Geology.
WILLIAM HORACE BUTT, A.B., Teaching Fellow in Geology.
KEENER CHAPMAN FRAZER, A.B., Teaching Fellow in History.
LEE DEWITT MARTIN, A.B., Teaching Fellow in Mathematics.
MICHAEL ARENDELL HILL, JR., A.B., Teaching Fellow in Mathematics.
ROY JAY MORTON, A.B., Teaching Fellow in Mathematics.
WILLIE ATKINS, A.B., Teaching Fellow in Psychology.

STUDENT ASSISTANTS, 1920-1921

SELLERS MARK CRISP, Assistant in Bacteriology.
ETTA PIERSON, Assistant in Botany.
ALMA HOLLAND, Assistant in Botany.
CARL PRESTON SAVAGE, Assistant in Botany.
BARNETTE NAIMAN, Assistant in Chemistry.
ROBERT ODUS DIETZ, JR., Assistant in Chemistry.
SIHON CICERO OGBURN, JR., Assistant in Chemistry.
NATHANIEL PARKINSON HAYES, Assistant in Civil Engineering.
JAMES SIMS WEARN, Assistant in Civil Engineering.
PHILIP CARVER SMITH, Assistant in Electrical Engineering.
MARSHALL EDGAR LAKE, Assistant in Electrical Engineering.
ROY MADISON CASPER, Assistant in Electrical Engineering.
THOMAS BRYAN SMILEY, Assistant in Electrical Engineering.
JOHN LEE AYCOCK, A.B., Assistant in English.
HENRY SPURGEON BOYCE, Assistant in Geology.

Samuel Baylor Lee, Assistant in Geology.
Burgin Edison Lohr, Assistant in Geology.
James Bennett Miller, Assistant in Geology.
Clayton Edwards, Assistant in Mathematics.
Irving Joseph Stephenson, Assistant in Mathematics.
Calvert Rogers Toy, A.B., Assistant in Pathology.
Alan Ramseur Anderson, A.M., Assistant in Pharmacology.
John William Harrell, Jr., Assistant in Pharmacy.
James Louis Cobb, Assistant in Pharmacy.
Joseph Granberry Tucker, Assistant in Physics.
William Francis Allston, Assistant in Physics.
William Earle Overcash, Assistant in Physics.
James Moffatt Alexander, Assistant in Physics.
Paul Milton Gray, Assistant in Physics.
Abram Haywood Merritt, Assistant in Physics.
Frederick Philips Brooks, Assistant in Physiological Chemistry.
James Woodfin Keever, Assistant in Psychology.
Perry Davis Priest, Assistant in Psychology.
Houston Spencer Everett, A.B., Assistant in Zoology.
Charles Dale Beers, Assistant in Zoology.

FACULTY COMMITTEES

The President is a member *ex officio* of all committees.

Advisory (*elected*). Professors Howe, Wilson, L. R., McGehee, Greenlaw, Coker.

Executive (*elected*). Mr. Bradshaw, Professors Wagstaff, Daggett, Graham.

Advanced Standing. Professors Howe, Daggett, The Registrar.

Athletics. Professors Mangum, Henderson, Howell, Lawson, Brown, K. J., Patterson, Hobbs, A. W.

Alumni Catalogue. The Registrar, Professors Hamilton, Wilson, L. R., Mr. Rankin and Alumni representatives.

Alumni Organization. Mr. Rankin, Professors Bernard, Patterson, Graham, Mr. Bradshaw.

Catalogue. Professors Daggett, Howe, Henry, Mustard, The Registrar.

Chapel. Professor Patterson, Mr. Bradshaw and Mr. Wunsch.

CLASS REUNIONS. Mr. Rankin, Professors Wagstaff, Graham.

CORRESPONDENCE STUDY. Professors Williams, L. A., Howe, Pierson, Knight, Hanford.

DEBATES. Professors Williams, H. H., Bernard, Graham, McKie.

DEGREES WITH DISTINCTION. Professors Greenlaw, Daggett, Hamilton, Henderson, Howe, Toy, Wilson, H. V., Carroll.

DRAMATICS. Professors Koch, Howe, Daggett, Greenlaw, Weaver, Wheeler, McKie.

ENTRANCE CERTIFICATES. Professors Williams, L. A., Daggett, Harrer, The Registrar.

ENTRANCE CONDITIONS. The Registrar, Professors Daggett, Foerster, Henry.

GROUNDS AND BUILDINGS. Professors Coker, Cobb, McNider, Wheeler, Booker.

LIBRARY BOOK COMMITTEE. Wilson, L. R., Coker, Bernard, Greenlaw, Pierson.

COMMITTEE ON LIBRARY BUDGET. The Librarian, the Deans of the College, the School of Applied Science, the Graduate School, the President.

MCNAIR LECTURES. Professors Coker, Henderson, Williams, H. H., MacNider.

PRESS ASSOCIATION. Mr. Chambers, Professors Wilson, L. R., Hibbard.

PUBLICATIONS. Professors Wilson, L. R., Hamilton, Coker, Hanford, Chambers.

PUBLIC LECTURES. Professors Henderson, Howe, McGehee, MacNider, Coker, Carroll.

PUBLIC OCCASIONS AND CELEBRATIONS. Professors Henderson, Hamilton, Patterson, Wheeler, Howe, Pratt.

SCHEDULES. Howe, Patterson, Wilson, T. J. Jr.

STUDENT EMPLOYMENT. Mr. Bradshaw, Professors Bell, Toy, Wheeler, Wagstaff, Hickerson, Graham, Mr. Wunsch.

STUDENT LIFE AND ACTIVITIES. Professors Booker, Wagstaff, Weaver, Hibbard, Graham, Mr. Bradshaw, Mrs. Stacy.

UNIVERSITY EXTENSION. Professors Wilson, L. R., Noble, Williams, L. A., Branson, Pierson, Daggett, Hanford, Carroll, Knight, Weaver, Odum, Rankin, E. R.

UNIVERSITY SERMONS. Professors Toy, Wheeler, Wagstaff.

Committee on Student Health and Living Conditions. Professors Mangum, Boye, Lawson, MacNider, Saville, Dr. Abernethy and Mr. Woollen.

Committee on University Relations. Professors Wilson, L. R., Knight, Branson, Williams, L. A.

English Composition. Professors Dargan, Bell, Carroll, Hanford, Leavitt, Pierson.

Committee on Faculty Living Conditions. Professors Wagstaff, Bell, Branson, Daggett, Henry, Wheeler, Wilson, L. R., and Mr. Woollen.

Committee on Honorary Degrees. Professors Henderson, Branson, Noble, Venable, Wilson, L. R.

PART TWO—GENERAL INFORMATION

THE UNIVERSITY

GROUNDS AND BUILDINGS

ADMISSION

EXPENSES

PECUNIARY AID

MEDALS AND PRIZES

REGULATIONS

STUDENT GOVERNMENT

RESERVE OFFICERS TRAINING CORPS

PUBLIC LECTURES

UNIVERSITY ORGANIZATIONS

THE ASSOCIATIONS OF THE ALUMNI

THE UNIVERSITY

FOUNDATION AND GOVERNMENT

The University was established in obedience to the first Constitution of the State, which was adopted in December, 1776. A clause of section XLI declared that "all useful learning shall be duly encouraged, and promoted in one or more universities." The charter was granted by the General Assembly in 1789, the cornerstone of the Old East Building was laid in 1793, and the University was opened in 1795.

The title, preamble, and first section of the Act of incorporation are as follows:

"AN ACT TO ESTABLISH A UNIVERSITY IN THIS STATE"

"WHEREAS in all well regulated Governments, it is the indispensable Duty of every Legislature to consult the Happiness of a rising Generation, and endeavor to fit them for an honorable Discharge of the Social Duties of Life, by paying the strictest attention to their Education: And whereas an University supported by permanent Funds, and well endowed, would have the most direct Tendency to answer the above Purpose:

"I. *Be it therefore enacted by the General Assembly of the State of North Carolina. and it is hereby enacted by the Authority of the Same,* That, *Samuel Johnson, James Iredell, Charles Johnson, Hugh Williamson, Stephen Cabarrus, Richard Dobbs Spaight, William Blount, Benjamin Williams, John Sitgreaves, Frederick Hargett, Robert Snead, Archibald Maclaine,* Honourable *Samuel Ashe, Robert Dixon, Benjamin Smith,* Honourable *Samuel Spencer, John Hay, James Hogg, Henry William Harrington, William Barry Grove,* Reverend *Samuel McCorkle, Adlai Osborne, John Stokes, John Hamilton, Joseph Graham,* Honourable *John Williams, Thomas Person, Alfred Moore, Alexander Mebane, Joel Lane, Willie Jones, Benjamin Hawkins, John Haywood,* senior *John Macon, William Richardson Davie, Joseph Dixon, William Lenoir, Joseph M'Dowell, James Holland* and *William Porter, Esquires,* shall be and they are hereby declared to be a body politic and corporate to be known and distinguished by the name of *The Trustees of the University of North Carolina** and by that name shall have perpetual Succession and a common Seal; and that they the Trustees and their Successors,

* The corporate name has been changed to The University of North Carolina.

by the Name aforesaid, or a Majority of them, shall be able and capable in Law to take, demand, receive and possess all Monies, Goods and Chattels that shall be given them for the Use of the said University, and the same apply according to the Will of the Donors, and by Gift, Purchase or Devise to take, have, receive, possess, enjoy and retain to them and their Successors forever, any Lands, Rents, Tenements and Hereditaments, of what Kind, Nature or Quality soever the same may be, in special Trust and Confidence that the same or Profits thereof shall be applied to and for the Use and Purpose of establishing the said University."*

The University is governed by a board of trustees elected by the Legislature and is free from sectionalism, sectarian or political control. The Governor of the State is *ex officio* President of the Board of Trustees.

Article IV of the Constitution of 1876 contains the following provisions regarding the University:

"Sec. 6. The General Assembly shall have power to provide for the election of Trustees of the University of North Carolina, in whom, when chosen, shall be vested all the privileges, rights, franchise, and endowments thereof, in any wise granted to or conferred upon the Trustees of said University; and the General Assembly may make such provisions, laws, and regulations from time to time as may be necessary and expedient for the maintenance and management of said University.

"Sec. 7. The General Assembly shall provide that the benefits of the University, as far as practicable, be extended to the youth of the State free of expense for tuition; also all the property which has heretofore accrued to the State, or shall hereafter accrue, from escheats, unclaimed dividends, or distributive shares of the estate of deceased persons, shall be appropriated to the use of the University."

SITUATION AND GENERAL ADVANTAGES

The University is situated at Chapel Hill, ten miles from Durham and twenty-eight miles from Raleigh. It may be reached by rail from University Junction, or by one of the automobile lines which maintain regular and frequent schedules from Durham. The site of the University is on a promontory of granite, belonging to the Laurentian system, about three hundred feet above the sandstone formation to the east that was once the bed of a great body of water. It is near the center of the state, midway between the mountains and the sea, with sufficient elevation to insure

* Laws of the State of North Carolina, published by James Iredell, Edenton, 1791.

healthful and pleasant working conditions. The site has always been famed for its beauty. On this promontory the great roads from Petersburg to Pittsboro and from New Bern to Greensboro crossed. At the cross was a chapel of the Church of England, giving to the eminence its name, New Hope Chapel. The name "Chapel Hill" occurs in the report of the Trustees, November, 1792, on the choice of a site, and a contemporary account describes the site as follows:

"The seat of the University is on the summit of a very high ridge. . . . The ridge appears to commence about half a mile directly east of the building, where it rises abruptly several hundred feet. This peak is called Point Prospect. The flat country spreads out below like the ocean, giving an immense hemisphere in which the eye seems lost in the extent of space."

This account is equally valid to-day. The region abounds in hills, covered with magnificent trees, filled with springs and brooks, and with a profusion of mountain flowers. The campus, of about fifty acres, is one of the most beautiful in America. The University owns, contiguous to the campus, five hundred acres of forest lands, partly laid off in walks and drives. Plans are under way for the development of part of this tract, to be called South Campus, on which new quadrangles are to be erected in the near future.

The present buildings of the University, about twenty-seven in number, range in age from the magnificent new Phillips Hall, just completed, to Old East, dating to 1795. There is a central heating and lighting plant. There is also a filtration plant, guaranteeing abundance of pure water. The Infirmary is a modern building, completely equipped, and under the direction of the University Physician. Records prove that health conditions at the University are excellent.

ORGANIZATION AND DEGREES

The University is organized into a College of Liberal Arts and seven Schools, which have jurisdiction over degrees as follows: The College of Liberal Arts, Bachelor of Arts, and jointly with the School of Law, Bachelor of Arts and Laws; the School of Applied Science, Bachelor of Science in Chemistry, in Electrical Engineering, in Civil Engineering, in Geology, and, jointly with the School of Medicine, in Medicine; the School of Education, Bachelor of Arts in Education; the School of Commerce, Bachelor of Science in Commerce; the Graduate School, Master of Arts, Master of Science, and Doctor of Philosophy; the School

of Law, Bachelor of Laws, Bachelor of Arts and Laws (jointly with the College of Liberal Arts); the School of Medicine, Bachelor of Science in Medicine (jointly with the School of Applied Science); the School of Pharmacy, Graduate in Pharmacy, Doctor of Pharmacy, and Pharmaceutical Chemist.

The School of Public Welfare offers courses of professional training for social work and community leadership.

In the Summer School are offered certain courses for which regular University credit is allowed, as well as special courses designed primarily for the teachers of the state.

There is also a Bureau of Extension through which the services of the University Faculty and certain material equipment of the University are made available to the people of the state generally.

THE COLLEGE YEAR

The college year is divided into Fall, Winter and Spring Quarters of approximately eleven weeks each, and a Summer Session of six weeks. There is a Thanksgiving recess of five days, a Christmas recess of approximately two weeks, and an Easter recess beginning on Good Friday and ending on the following Wednesday.

GENERAL CULTURE

Chapel Exercises are conducted in Gerrard Hall, with the reading of the scriptures and singing, every week-day morning except Saturday, at 10:20 o'clock. At the same hour timely talks are given by different members of the Faculty. Attendance at this service is required of Freshmen, unless especially excused. Bible classes for young men are taught in each of the five churches of the village every Sunday. Religious services are held twice a week, or oftener, in each church. A series of sermons is delivered annually by the University preachers, chosen by the Trustees from the various denominations. Bible lectures are delivered every Sunday morning in Gerrard Hall. The Young Men's Christian Association meets three times a week, for prayer and other services, and conducts a series of Bible courses, which are largely attended by the students.

DISCIPLINE

The University endeavors to make young men manly and self-reliant, and to develop character by educating the conscience. The Faculty may, at their discretion, admonish, suspend, or dismiss students for neglect of duty, or for misconduct.

PHYSICAL TRAINING

Hearty encouragement is given to athletic sports and to all kinds of physical culture. The Emerson Athletic Field, the gift of Mr. Isaac Emerson, of Baltimore, furnishes ample facilities for football and baseball, and the track is admirably adapted for running and general track athletics. Fifteen tennis courts are located on the campus. Systematic exercise under skilled instructors is offered to all students in the University.

Exercise is required three hours a week of all Freshmen, unless excused. In the fall, a thorough physical examination of each Freshman is made, and the heart, the lungs, the eyes, and the ears, are tested, in order that students defective in physical development may be given special work under the personal supervision of the Director. Round shoulders, flat chests, curvature of the spinal column, hernia and mild cases of congenital paralysis are thus often greatly benefited and sometimes completely corrected.

MEDICAL ATTENTION

In order to secure responsible and efficient medical advice and to provide proper attention for the student during sickness, the University employs a practicing physician and maintains a well appointed infirmary. The Infirmary is equipped with all necessary conveniences and comforts, is under the immediate supervision of the University Physician, and is provided with two experienced nurses. At the discretion of the University Physician a student may be admitted to its wards, and for such services as may be rendered by the staff no charges are made, but should any additional service (consultation, special nurses, operations requiring the attendance of a trained surgeon) recommended by the attending physician and approved by the parent or guardian, be necessary, the student will be required to pay for such services.

GROUNDS AND BUILDINGS

The University campus contains forty-eight acres of land, affording ample grounds for building and for all sorts of athletic sports. The University owns, contiguous to the campus, five hundred acres of forest lands, which are partly laid off in walks and drives. The University has twenty-seven buildings.

BUILDINGS FOR GENERAL UNIVERSITY USES

The Alumni Hall contains the offices of administration, and nine lecture rooms.

Gerrard Hall is used for morning prayers, for mass meetings and other student assemblies, and for public lectures.

Memorial Hall commemorates the illustrious dead of the University. It is used at Commencement for public exercises.

BUILDINGS FOR SPECIAL PURPOSES

Smith Hall contains the Law Library, offices and lecture rooms of the School of Law.

The Peabody Building, the gift of the Peabody board, contains lecture rooms, offices, library, and auditorium of the School of Education, and is splendidly equipped in every detail.

The Young Men's Christian Association Building is a valuable adjunct to the work of the Association.

The William Preston Bynum, Jr., Gymnasium is the gift of Judge William Preston Bynum, in memory of his grandson, William Preston Bynum, Jr., of the class of 1893. It is furnished with modern apparatus, swimming pool, baths, lockers and running track; and contains a trophy room and the office of the Instructor in Physical Training.

The Infirmary, a spacious and completely equipped building, is open to all the students of the University.

Swain Hall contains a dining-room with a seating capacity of six hundred, kitchens, a bakery, and a cold-storage plant.

A Modern Steam Laundry to be operated as part of the service plants of the University will be ready with the opening of the Summer School of 1921.

DORMITORIES

The South Building contains one lecture room and thirty living rooms.

The Old East Building contains two lecture rooms and twenty-eight living rooms.

The Old West Building contains two lecture rooms, the Historical Museum, and twenty-seven living rooms.

The New West Building contains the Dialectic Literary Society's Hall, one lecture room, and eleven living rooms.

The New East Building contains the Philanthropic Literary Society's Hall, the Geological Laboratory and Museum, the offices of the North Carolina Geological Survey, and fourteen living rooms.

University Inn is used for dormitory purposes, and contains a dining hall for students.

The Carr Dormitory, the gift of Gen. J. S. Carr, contains forty-two living rooms.

The Smith Dormitory contains forty living rooms.

The Battle, Vance and Pettigrew Dormitories, each contain twenty-four living rooms, each room having two connecting bedrooms.

The Steel Dormitory, containing thirty-six living rooms, will be ready for occupancy with the Fall Quarter of 1921.

LABORATORIES AND MUSEUMS

The Geological Laboratories and Museum

The Geological Laboratory occupies the first floor of the New East Building. In addition to a lecture room with a seating capacity of about fifty, there is a large laboratory supplied with working collections of minerals, rocks, and fossils, and with photographs, maps, and models illustrating geological structure. The laboratory is furnished with three petrographical microscopes, with four microscopes for soil study, and with apparatus for the slicing and polishing of rocks. Microscope slides have been made of most of the specimens from North Carolina; the department has, also, sections of the typical European rocks. Sections of the rocks around Chapel Hill, and the igneous rocks of the Boston Basin, made by the late Hunter Lee Harris, of the class of 1889, were given to the geological department. There is a room for photographic work.

The University possesses a collection of more than two thousand specimens of building stones, coal, and various products illustrating the economic geology of the State. These are arranged in an exhibition room of six hundred and fifty square feet of floor space. Here also are kept the sections taken with a diamond drill in the coal regions of Pennsylvania, in the region around King's Mountain, where the Summer School of Geology held its sessions, in the Dan River coal fields, and in the Triassic Rocks at Durham, N. C. A complete set of the ores of the precious metals found along the line of the Atchison, Topeka and Santa Fe Railroad is included in the collection. Valuable additions have been made to the collection of fossils also, affording increased opportunity for laboratory work in historical geology and paleontology. The collection illustrating economic geology has been largely increased by the addition of many specimens from the mining regions of Northern Ontario. Stereograph and lantern slides illustrating geological phenomena in all parts of the world and lantern slides showing mining methods in all the great mining regions are in constant use, and important additions to this collection have been made during the year.

The Department Library, which occupies a room adjoining the exhibition room, is supplied with State and United States Reports, the papers of working geologists, the best works upon Geology, and scientific periodicals.

The Chemical Laboratories

Chemistry Hall is located east of Alumni Hall. The main floor contains the large lecture hall, a small lecture room, the laboratory for Organic Chemistry, two laboratories for Quantitative Analysis, several private laboratories and offices for the instructors. On the second floor are two large laboratories for Elementary Chemistry, the large laboratory for Quantitative Analysis, several research laboratories and the Library of the Department. The basement contains the storerooms, fireproof room, constant temperature room, assay room, laboratories for physical chemistry and electrochemistry and a small lecture room.

The laboratories are well equipped with apparatus for the regular courses and for research work of students or instructors. A most excellent collection of books and journals is of the utmost value in research work.

The Biological Laboratories

The Biological Building, Davie Hall, is occupied by the Departments of Zoology and Botany. The building is a rectangular structure of pepper-and-salt brick and is divided into a main body and two wings. The total length is 125 feet, the depth of the main body 44 feet, that of the wings 38 feet. A basement underlies the whole, above which are two floors. The main body has an additional third floor. The building faces south, lies to the east of the New East, and adjoins the Arboretum.

The entrance hall, on the first floor, lighted with large windows on either side of the main doorway, serves for the exhibition of museum specimens of a more popular character. Back of the entrance hall are herbarium, a room for charts and other lecture apparatus, and a room for the storage of zoological specimens. The west wing of this floor is occupied by a lecture room with a seating capacity of one hundred and twenty, the east wing by a laboratory for the elementary classes in zoology and botany. The latter laboratory is arranged for twenty-four wall tables with a window in front of each table.

On the second floor the east wing is occupied by a single large laboratory for advanced work in zoology and the west wing by a similar laboratory for advanced work in botany. Each of these rooms accommodates twenty workers, and is lighted on three sides with twenty windows. The main building on this floor includes private workrooms for the professors of zoology and botany; two storerooms, and a library. On the third floor of the main body is a photographic studio with windows on the north side extending to the floor, and with skylights. In the basement are a fireproof incubator room, a room for micro-photography with adjoining dark room, janitor's shop, and rooms for the storage of heavy supplies. The wings in the basement are designed for the keeping of live animals and plants for experimental work in botany and zoology.

The Medical Laboratories

The new medical building, Caldwell Hall, completed in 1912, is located on the south side of Cameron Avenue opposite Davie Hall, facing north. This location secures the north light in all of the laboratories used for microscopic work.

To the north is the main building, 117 x 64, and adjoining this, to the south, is a wing, 63 x 36, each containing a basement and two floors. The first floor of the main building is bisected from north to south by an entrance hall 14 feet wide, and from east to

west by a corridor 8 feet wide, dividing the floor space into four equal parts. Each part is subdivided into one large class laboratory, 34 x 27, and two private laboratories, 14 x 12½. The class laboratories lie next to the entrance hall. Those on the north side will be used for microscopic work in Histology and Embryology. They are lighted from five large windows on the north side. On the south side are the laboratories for Physiological Chemistry and Experimental Physiology.

The private laboratories, located on the farther side of the class laboratories, are occupied by the instructors. The office of the Dean is in one of the private laboratories on this floor, and may be entered from the west end of the corridor.

The second floor is a duplicate of the first floor with the exception that the space above the entrance hall is enclosed and is used for the Departmental Library. On the north side are the Bacteriological and Pathological laboratories, and on the south side the Pharmacological laboratory and a lecture room. The laboratories here have the same arrangement as those on the first floor. Nearly opposite the Pathological laboratory is the Pathological Museum.

At the ends of the corridor on the first and second floors are small fireproof rooms which will be used for incubators, thermostats, and other purposes requiring the continuous use of oil or gas lamps.

In the basement of the main building provision is made for the care of animals. The floors of the several apartments are covered with cement and are inclined to a common drain pipe. The rooms are well ventilated, lighted, and heated, and provided with all necessary facilities for proper sanitation.

On the first floor of the wing adjoining the main building is the main lecture hall, and in the rear of this is the amphitheatre for anatomical demonstrations. In the rear of the amphitheatre is the Anatomical Museum.

On the second floor of the wing are the anatomical laboratories. In the center, and occupying a large part of the floor space, is the main dissecting hall, which has a cement floor and is lighted by six large windows and two skylights. On either side of a short corridor at the front are two private laboratories for special dissections, and at the end of the corridor the two laboratories for the instructors. The latter are entered from the upper hall of the main building. In the rear of the main dissecting hall are the lavatory and locker rooms.

The basement of the wing is divided by a solid brick wall from east to west. On the north of this wall are the storerooms, a photographic room, a room for the refrigerating and gas plant; on

the south side are the storage tanks for cadavers, the incinerator, and other arrangements for the care of anatomical material. In the rear end of the basement is an entrance hall containing the elevator and the stairs leading to the amphitheatre and the dissecting hall. The dissecting hall is supplied with hot and cold water.

The laboratories are well equipped with apparatus for the use of the students and the research work of the teachers. Animals are available in adequate numbers for all proper experimental work.

The Pharmaceutical Laboratories

Person Hall is occupied by the School of Pharmacy. It contains ten rooms, each equipped with water, gas, and electricity. It is well supplied with light and ventilation.

The front part of the building contains a lecture room, a library, and a research laboratory. The lecture room has a seating capacity of seventy-five students. In this room are exhibited many rare and expensive chemicals, antitoxins and serums, standardized galenicals, and preparations made by various students. These exhibits serve to illustrate lectures. The library was inaugurated by the Class of 1897. In it are filed a large number of medical and pharmaceutical journals, and it contains a well-selected group of text, historical, and reference books.

The body of the building is made up of three laboratories and an office. These laboratories are for the first, second, and third year pharmacy students. Each student is supplied with an individual desk with lock, in which is stored all the equipment and apparatus necessary for the work. These desks are supplied with both water and gas. Suitable balances are distributed at convenient points throughout the laboratories.

The back wing of the building contains a prescription and gas room and a large lecture room for the courses in materia medica and botany.

The Physical Laboratories

The Physical Laboratories occupy the west end of the main floor of Phillips Hall. There is a large laboratory for General Physics, a laboratory for advanced work, a photographic dark room and two large apparatus rooms. One of these adjoins a large lecture room with a seating capacity of three hundred. The lecture room and laboratories are all equipped with gas, running water and electric power.

The Civil and Highway Engineering Laboratories

The new Civil Engineering Laboratories occupy the east end of the ground floor of Phillips Hall. The materials testing laboratory contains a 100,000-pound Universal testing machine, upon which the usual tests of compression, tension, torsion, and cross-bending can be performed on various materials of construction. There is also a standard tensile testing machine for testing briquetts of cement and other mortars, together with such accessory apparatus for cement and sand tests as the Vicat needle, molds, standard sieves, etc.

The Highway Engineering Laboratory is equipped with apparatus for the standard tests upon bituminous and non-bituminous road-surfacing materials, consisting in part as follows: Engler viscosimeter, Dow penetration machine, melting point apparatus, open-cup oil tester, pycnometers, hydrometers, Deval 4-cylinder abrasion machine, La Chatelier specific gravity apparatus, Page impact machine, diamond core drill press, jaw crusher, drying ovens, etc.

The equipment for use in connection with the courses in Hydraulic and Sanitary Engineering includes apparatus for experiments upon the flow of water in pipes and weirs, friction loss, hydraulic gradient, discharge through orifices and nozzles; one model standard Eddy fire hydrant, one model 4-inch Chapman water gate, four standard 5/8-inch water meters, one set of valves and fittings, and four complete sets of patent privy or septic tanks donated by the manufacturers for testing purposes.

A model gaging station with water stage recorder, available for student instruction, is being installed on Morgan's Creek near Chapel Hill by the U. S. Geological Survey.

The equipment for the courses in Surveying includes compasses, five engineer's levels, five engineer's transits, two large plane-tables with telescope alidades and stadia hairs, four abney hand levels, and numerous steel tapes, rods, targets, etc.

The Electrical Engineering Laboratories

The Electrical Laboratories are located in the west end of the ground floor of Phillips Hall. The large dynamo laboratory contains more than forty generators, motors and transformers ranging in size up to 40 horsepower. The large seven-panel slate switchboard distributes direct and alternating current power by means of a plug and socket system to 25 sub-panels located in the dynamo

laboratory and the other special laboratories. Eight wires run from the main switchboard to each of these sub-panels, giving a very flexible system of power distribution.

The following sources are available: 3-phase alternating current power at 110 volts, 220 volts or 2300 volts; direct current power from a 220 ampere hour storage battery at 120 volts. There is also a 5 kilowatt low voltage set with a capacity of 500 amperes at 12 volts or 1000 amperes at 6 volts.

The standardization laboratory is equipped with precision standards for direct current measurements up to 600 volts and 1000 amperes and for alternating current measurements up to 2300 volts and 200 amperes.

The photometric laboratory is equipped with a standard Reichsanstalt photometer bench with three-meter track, Bunsen screen, Lummer-Brodhun disappearance and contrast screens, standard Hefner lamp, a number of certified carbon and tungsten incandescent standards; a compound rotator, a luxometer for illumination surveys and a number of shades and reflectors of various types. The laboratory is also supplied with constant potential and constant current arc lamps, direct and alternating current types, a 4-ampere magnetite arc, 12-ampere flaming-arc and a 3.5 ampere mercury-arc.

The radio laboratory is equipped with receiving sets for the reception of damped and undamped waves up to a maximum of 25,000 meters. It is well supplied with coils and condensers and a number of thermionic tubes for receiving and transmitting.

A complete General Electric oscillograph equipment has just been added to the laboratory.

The Power Plant and Mechanical Engineering Laboratory

The University Power Plant is located just back of Phillips Hall, in which are the Civil and Electrical Engineering laboratories. This plant furnishes electric lights, power and water for the town of Chapel Hill and electric lights and power, water and heat for the University buildings.

The plant was built in 1916, and was designed with a view to its use as a Mechanical Engineering Laboratory. It has an ultimate capacity of 1000 horsepower. At present the boiler room contains two 168-horsepower Babcock and Wilcox boilers supplying steam at 200 pounds pressure, a 500-horsepower Cochrane feed water heater and a full equipment of boiler room auxiliaries. It also contains two large exhaust steam heaters and a live steam heater for the hot water heating system which supplies all University build-

ings. All of the apparatus is supplied with a full complement of flow meters, gages, thermometers, etc., so that a complete test may be run on this part of the plant.

Adjoining the boiler room is the pump room, which contains a 4-in. two stage centrifugal service pump driven by a 20-horsepower Crocker-Wheeler motor, a 50-horsepower DeLaval turbine driven centrifugal pump for circulating the water in the heating system and a 1000-gallon per minute fire pump driven by a 100-horsepower Westinghouse motor.

The engine room, located over the pump room, contains a 200-kilowatt three phase, 2300 volts General Electric turbo generator, a 35-horsepower Ball engine and a small reciprocating engine for valve setting experiments. The turbo alternator has a direct connected exciter and there is also a 10 kilowatt motor generator exciter set. The electrical equipment is controlled by a five-panel remote-control switchboard made by the General Electric Company. All of the high tension switches are located in an enclosure in the pump room below. The enclosure also contains an 8 kilowatt constant current transformer for the campus lighting and street lighting of Chapel Hill and a 2300 volt starting compensator controlling the centrifugal pump which pumps the water supply from a small creek a mile north of the town. The laboratory is equipped with calorimeters, flow meters, thermometers, Orsat apparatus for flue gas analysis, indicators and other accessory apparatus necessary for making complete tests on power plants.

THE UNIVERSITY LIBRARY

The University Library contained at the end of the academic year ninety-three thousand nine hundred and fourteen volumes and several thousand pamphlets. This collection has been largely classified and catalogued according to the Dewey decimal system, and the greater part of its contents have been rendered easily accessible by means of a thorough dictionary author, title, and subject card catalogue.

The Library funds are expended under the direction of the Librarian, the Library Committee, and Professors in charge of Departments, with special reference to the instruction given in the University. The annual addition of books from purchase, donations, and exchanges is about five thousand five hundred volumes, all of which are carefully classified and catalogued as they are received.

The Librarian and those assisting in the Library are constantly in attendance to give help in any line of research or reading. A special collection of dictionaries, encyclopedias, almanacs, handbooks, atlases, concordances, and other reference books is provided for general use in the reference room.

In addition to the resources of the general reference room, the Library places at the disposal of students for reference purposes a collection of ten thousand bound periodicals covering all fields of general, technical, and professional information. A great number of the sets belonging to this collection are complete from their beginning, and consequently completely cover the history and progress of the subjects of which they treat. In this way students pursuing general academic and special technical or professional courses have access to the best American, English, and Continental periodical literature to be found on their subjects. The articles contained in these files are fully indexed in special periodical indexes and are referred to with ease.

Nine hundred current periodicals, transactions of literary, scientific, historical and other societies, university studies, serial publications, and a half hundred daily and weekly newspapers, continuing and supplementing the bound sets, are subscribed for or secured through exchange annually. They are to be found in the general periodical room and in the seminars, professional schools, and scientific laboratories, where they can be consulted in the course of daily work.

As the Library is a depository for the publications of the United States Government, it contains more than seven thousand volumes of material especially valuable for reference in debate, and in the study of social and political sciences, useful arts, and the natural sciences. This collection is thoroughly indexed and its contents are easily consulted.

Five special seminar rooms have been equipped in the general Library to facilitate advanced work in English and German Literatures and Languages, Greek and Latin Literatures and Languages, the Romance Literatures and Languages, History, and North Carolina History. Special scientific and professional collections are to be found in the libraries of seminars belonging to the departments in which such instruction is given. These collections are under the supervision of the instructors in the respective departments and the Librarian, and aid is given students in the use of books relating to their work.

The North Carolina room contains all the books in the Library which relate to North Carolina, including the Weeks collection of Caroliniana, which is rapidly being catalogued and made available. The whole makes one of the finest collections on the history of this State in the country, and with its special librarian, whose thorough knowledge of the books adds greatly to their value and use, offers rare advantages to the research student.

The main Library is housed in a commodious modern library building erected in 1907, and represents an expenditure for construction and equipment of $81,000. The reference, current periodical, and seminar rooms in the main Library are large, well lighted, and have table and seating capacity for two hundred students at one time.

The stack room contains three levels of steel shelving with stairway and glass mezzanine floor between and, with its present complement of shelving, capacity for one hundred and five thousand volumes.

Brief instruction in the use of the card catalogue, the periodical indexes, and the reference books generally, is given new students at the beginning of each quarter, and to any student at any time who may request it. Instruction in a regular University class is also given to students who are preparing for positions in school and public libraries, with a view to making them more efficient in the discharge of their special duties.

The Library is open on week days from 8:30 a. m. to 1:15 p. m., and from 2:00 p. m. to 6:00 p. m.; on week-day evenings, Saturday excepted, from 7:00 p. m. to 11:00 p. m.; on Sundays, from 2:30 p. m. to 4:30 p. m.; on University holidays, from 3:00 p. m. to 4:00 p. m.

The following rules are considered necessary for the proper use of the Library. They will be enforced with strict impartiality:

Subscribers to the Library are the students and members of the faculty.

Other persons who desire to use the Library may become subscribers on payment of the regular Library fee.

The Library fee is four dollars a year, two dollars a term, or fifty cents a month.

Persons who are not subscribers may not borrow books on a subscriber's name.

Not more than three books may be charged to one name at the same time.

Fines for books kept over fourteen days (including the day of issue) will be imposed with exact regularity at the rate of five cents per day. Books borrowed for debate or for class use may be kept out from 8:30 p. m. until 10 a. m. of the following day. After that hour they are subject to a fine at the rate of five cents per hour. The date on the pocket or flyleaf of book is sufficient notice when the book is due.

Books from the reference room must remain in the Library.

Magazines, bound or unbound, must not be removed from the Library.

Mutilation of books, or magazines, or defacement by writing in them, must be paid for by purchase of a new copy.

Any conversation in the Library, except to obtain books desired, is forbidden.

Continued disregard for any of these rules will cause the offender to forfeit the right to use the Library.

ADMISSION

ADMISSION TO THE UNIVERSITY

Candidates for admission to the University are received by certificate from accredited schools or by examination.

Entrance By Certificate. Students who present certificates of work accomplished at preparatory schools and colleges may be admitted without examination, provided the certificates are approved. The right to examine, however, is reserved, when such a course is deemed necessary. Certificates must be made out on the printed forms furnished on application to the Registrar, and should be sent in as early as possible in the summer vacation; the uniform entrance certificates of the Association of Colleges and Preparatory Schools of the Southern States will also be accepted. Candidates must present themselves in person before the Committee on Entrance Certificates in the Alumni Building during the period of registration (*September 27, 28, 1921.*).

Entrance By Examination. Entrance examinations are held in September. Arrangements have been made with certain schools in the State whereby examinations for admission may be held in May, also, at the schools. The University will accept the uniform entrance examination papers of the Association of Colleges and Preparatory Schools of the Southern States, provided such papers are properly vouched for and sent sealed to the University for grading. The University will accept also the certificates of the College Entrance Examination Board. Candidates for admission by examination must report at 9 a. m., *Tuesday, September 27, 1921,* to the Registrar, who will appoint time and place for examination.

Admission to Advanced Standing

A candidate for advanced standing may be admitted to the Sophomore, Junior, or Senior Class, with or without complete examination. He is subject not only to the examinations required of candidates for admission into the Freshman Class, but to special examinations both in all the required studies already pursued by the class which he desires to enter and in as many elective studies as would have been required of him as a member of that class. When satisfied with the apparent fitness of the candidate, the examining committee may, in spite of his deficiencies in some studies, admit him to an advanced class; but a candidate so admitted is not recommended for the degree until the deficiencies are

made good. The examining committee may accept, also, with proper restrictions, the official report of work satisfactorily completed at a college or university of good standing in place of an examination upon such previous work. All credits allowed by this committee stand in suspense until the candidate shall have spent one quarter in residence. If his work during this quarter is unsatisfactory, the credits may be canceled.

A candidate for advanced standing should present himself to the Committee on Advanced Standing, which meets in the Registrar's Office each night during the registration period at 8:00 p. m. An official report of the work of the candidate at the college last attended should be sent to the Registrar not later than September 15.

Subjects Accepted for Entrance

The complete list of subjects accepted for entrance is as follows:*

Botany	1.	unit
Chemistry	1.	unit
Civics	.5	unit
Drawing	1.	unit
English, *a, b, c*	3.	units
French, *a, b*	3.	units
General Science	1.	unit
German, *a, b*	3.	units
Greek, *a, b, c*	3.	units
History, *a, b, c*	3.	units
Latin, *a, b, c, d, e*	4.7	units
Mathematics, *a, b, c, d*	4.	units
Physics	1.	unit
Physiography	1.	unit
Physiology	.5	unit
Spanish, *a*	2.	units
Zoology	1.	unit

Vocational Subjects:

Bookeeping	1.	unit
Commercial Arithmetic	1.	unit
Commercial Geography	.5	unit
General Agriculture	1.	unit
Manual Training	2.	units
Stenography and Typewriting	1.	unit

* For specific requirements in each of the subjects in this list, see pages 56-62.

It will be noticed that each subject has a valuation by units. A unit means a definite amount of a subject satisfactorily completed in a reasonable length of time. For example, one unit in History means the satisfactory completion of a standard text-book in United States History in a period of study continuing through an entire High School session; one-half unit in Civics means the completion of a standard text in Civics in about one-half a session; the fifteen units mentioned below correspond to the four years of work in a good high school.

Unconditioned entrance to the undergraduate departments of the University requires a total of 15 units selected from the list above.

At the discretion of the Committee on Entrance Certificates, candidates may be admitted with conditions provided the total number of units offered does not fall below the minimum of 13 units, and *provided the conditions are of such nature that in the judgment of the Committee they may be removed according to the regulations given in the next paragraph.* The Committee has the discretionary power to admit certain candidates whose credits fall below 13 units, if, in the opinion of the Committee, the maturity of the candidate, who must be at least twenty-one years of age, justifies such action. Candidates thus admitted will be classed as special students.

Entrance conditions in any subject must be made up by September of the following year. A student who fails to comply with this regulation will be required to take in his Sophomore year an extra course in the department in which he is conditioned. The extra course then becomes an addition to his total requirements for graduation, and may not be substituted for any other course.

The requirements in each of the subjects accepted for entrance are as follows:

BOTANY:* ..... .5 or 1. unit

A course such as is contained in any standard text-book; laboratory work.

CHEMISTRY:* ..... .5 or 1. unit

A course such as is contained in any standard text-book; laboratory work.

CIVICS: ..... .5 unit

A course such as is contained in any standard text-book.

DRAWING:..... 1. unit

A year's work, including simple geometrical plane and solid figures, simple pieces of machinery, elementary rules of perspective, light and shade, as applied in freehand sketching.

ENGLISH: (1920-1922) (*a*) Grammar and Rhetoric.... 1. unit
(*b*) Classics for Reading ..... 1. unit

Two from each of the following groups:

GROUP I.—CLASSICS IN TRANSLATION.

The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel together with the books of Ruth and Esther; the *Odyssey*, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the *Iliad*, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; Virgil's *Aeneid*. The *Odyssey*, *Iliad*, and *Aeneid* should be read in English translations of recognized literary excellence.

For any selection from this group a selection from any other group may be substitiuted.

GROUP II.—SHAKESPEARE.

Shakespeare's *Midsummer Night's Dream*, *Merchant of Venice*, *As You Like It*, *Twelfth Night*, *The Tempest*, *Romeo and Juliet*, *King John*, *Richard II*, *Richard III*, *Henry V*, and *Coriolanus;* and, if not chosen for study, *Julius Cæsar*, *Macbeth*, and *Hamlet*.

GROUP III.—PROSE FICTION.

Malory's *Morte d'Arthur* (about 100 pages); Bunyan's *Pilgrim's Progress*, Part I; Swift's *Gulliver's Travels* (voyage to Lilliput and to Brobdingnag); Defoe's *Robinson Crusoe*, Part 1; Goldsmith's *Vicar of Wakefield;* Frances Burney's *Evelina;* Scott's Novels, any one; Jane Austen's Novels, any one; Maria Edgeworth's *Castle Rackrent*, or *The Absentee;* Dicken's Novels, any one; Thackeray's Novels, any one; George Eliot's Novels, any one; Mrs. Gaskell's *Cranford;* Kingsley's *Westward Ho!* or *Hereward, the Wake;* Reade's *The Cloister and the Hearth;* Blackmore's *Lorna Doone;* Hughes's *Tom Brown's Schooldays;* Stevenson's *Treasure Island*, or *Kidnapped*, or *Master of Ballantræ;* Cooper's Novels, any one; Poe's *Selected Tales;* Hawthorne's *The House of Seven Gables*, or *Twice Told Tales*, or *Mosses From an Old Manse;* A collection of short stories by various standard writers.

GROUP IV.—ESSAYS, BIOGRAPHY, ETC.

Addison and Steele's *The Sir Roger de Coverly Papers*, or Selections from the *Tatler and Spectator* (about 200 pages); Boswell's Selections from the *Life of Johnson* (about 200 pages); Franklin's *Autobiography;* Irving's Selections from *The Sketch Book* (about 200 pages), or *Life of Goldsmith;* Southey's *Life of Nelson;* Lamb's Selections from the *Essays of Elia* (about 100 pages); Lockhart's Selections from the *Life of Scott* (about 200 pages). Thackeray's Lectures on Swift, Addison, and Steele in the *English Humorists;* Macaulay's any one of the following essays: *Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederick the Great, Madam d'Arblay;* Trevelyan's Selections from the *Life of Macaulay* (about 200 pages); Ruskin's *Sesame and Lilies*, or Selections (about 150 pages); Dana' *Two Years Before the Mast;* Lincoln's Selections. including at least the two *Inaugurals*, the *Speeches in Independence Hall* and at *Gettysburg*, the *Last Public Address*, the *Letter to Horace Greeley*, together with a brief memoir or estimate of Lincoln; Parkman's *The Oregon Trail;* Thoreau's *Walden;* Lowell's Selected Essays (about 150 pages); Holmes's *The Autocrat of the Breakfast Table;* Stevenson's *An Inland Voyage* and *Travels with a Donkey;* Huxley's *Autobiography* and Selections from *Lay Sermons*, including the addresses on *Improving Natural Knowledge, A Liberal Education*, and *A Piece of Chalk*. A collection of essays by Bacon, Lamb, DeQuincey, Hazlitt, Emerson, and later writers. A collection of letters by various standard writers.

GROUP V.—POETRY.

Palgrave's *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave's *Golden Treasury* (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for class study); Goldsmith's *The Traveler* and *The Deserted Village;* Pope's *The Rape of the Lock;* a collection of English and Scottish ballads, as, for example, some Robin Hood ballads, *The Battle of Otterburn, King Estmere, Young Beichan, Bewick and Grahame, Sir Patrick Spens*, and a selection from later ballads; Coleridge's *The Ancient Mariner, Christabel*, and *Kubla Khan;* Byron's *Childe Harold*, Canto III or IV, and *The Prisoner of Chillon;* Scott's *The Lady of the Lake*, or *Marmion;* Macaulay's *The Lays of Ancient Rome, The Battle of Naseby, The Armada, Ivry;* Tennyson's *The Princess*, or *Gareth and Lynette, Lancelot and Elaine*, and *The Passing of Arthur;* Browning's *Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of*

the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, "De Gustibus—," Instans Tyrannus; Arnold's *Sohrab and Rustum,* and *The Forsaken Merman;* selections from *American poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.*

(*c*) Classics for Study..... 1. unit
One selection from each of the following groups:

Group I.—Drama.
Shakespeare's *Julius Cæsar, Macbeth, Hamlet.*

Group II.—Poetry.
Milton's *L'Allegro, Il Penseroso,* and either *Comus* or *Lycidas;* Tennyson's *The Coming of Arthur, The Holy Grail,* and *The Passing of Arthur;* the selections from Wordsworth, Keats, and Shelley in Book IV of Palgrave's *Golden Treasury* (First Series).

Group III.—Oratory.
Burke's *Speech on Conciliation with America;* Macaulay's two speeches on *Copyright,* and Lincoln's speech at Cooper Union; Washington's *Farewell Address* and Webster's *First Bunker Hill Oration.*

Group IV.—Essays.
Carlyle's essay on *Burns,* with a selection from Burns' Poems; Macaulay's *Life of Johnson;* Emerson's essay on *Manners.*

French: (*a*) Elementary (Two-year course)..... 2. units
The forms and uses of the various parts of speech, including irregular verbs; translation of 250 or more pages of easy prose into idiomatic English; translation of simple English sentences into French; pronunciation.
(*b*) Intermediate ..... 1. unit
Translation of 400 or more pages of French of ordinary difficulty.

General Science:*..... .5 or 1. unit
A course such as is contained in Caldwell and Eikenberry's General Science; laboratory work.

* A credit of one unit is given only when the course is accompanied by laboratory work, a suitable record of which is kept in a notebook. In case the laboratory work is omitted only .5 unit will be allowed.

GERMAN: (*a*) Elementary (Two-year course)..... 2. units
Inflection, including the most common strong verbs; the ordinary laws of German syntax; translation of 200 or more pages of easy German into idiomatic English; translation of simple English sentences, based upon passages read, into German.

(*b*) Intermediate ..... 1. unit
Translation of 400 or more pages of German of ordinary difficulty; composition.

GREEK: (*a*) Grammar and Composition..... 1. unit
Acquaintance with the more usual forms and constructions; simple narrative in English, based upon Xenophon's Anabasis, to be translated into Greek.
(*b*) Xenophon ..... 1. unit
The first four books of the Anabasis.
(*c*) Homer ..... 1. unit
The first three books of the Iliad (omitting II, 494—end), with study of Homeric forms, constructions, and prosody.

HISTORY: (*a*) The history of the United States, as outlined in the best text-books for high schools..... 1. unit
(*b*) The history of Greece and Rome as outlined in the best text books for high schools..... 1. unit
(*c*) The history of England as outlined in the best text-books for high schools..... 1. unit
(*d*) Mediæval History ..... 1. unit

LATIN: (*a*) Grammar and Composition..... 1. unit
Forms, syntax, and prosody; simple narrative in English, based upon the prose read, to be translated into Latin.
(*b*) Cæsar ..... 1. unit
The first four books of the Gallic War.
(*c*) Cicero ..... .7 unit
The four orations against Catiline.
(*d*) Vergil ..... 1. unit
The first six books of the Æneid, study of hexameter verse.
(*e*) Cornelius Nepos ..... 1. unit
The first fifteen lives.

MATHEMATICS: (*a*) Elementary Algebra..... 1. unit
A high school algebra to quadratic equations.
(*b*) Advanced Algebra ..... .5 or 1. unit

Review of elementary algebra and quadratic equations, binomial theorem, and progressions.

(*c*) The whole of Plane Geometry..... 1. unit

(*d*) The whole of Solid Geometry..... .5 unit

(*e*) Trigonometry ..... .5 unit

Plane trigonometry and spherical trigonometry through right triangles.

PHYSICS:* ..... .5 or 1. unit

A course such as is contained in Millikan and Gale's Physics or Carhart and Chute's High School Physics; laboratory work such as is outlined in Millikan and Gale's Physics.

PHYSIOGRAPHY:* ..... .5 or 1. unit

A course such as is contained in any standard text-book.

PHYSIOLOGY: ..... .5 unit

A course such as is contained in any standard text-book.

SPANISH: (*a*)Elementary (Two-year course)..... 2. units

Inflection, including the most common irregular verbs; ordinary laws of syntax; translation of 250 pages or more of easy Spanish into idiomatic English; translation of simple English sentences, based upon the passages read, into Spanish.

ZOOLOGY:* ..... .5 or 1. unit

A year's course such as contained in any standard text-book; laboratory work.

VOCATIONAL SUBJECTS

The University will accept, as elective units for entrance, work in the vocational subjects outlined below, to the value of two units for entrance to the College of Liberal Arts, and three units for entrance to the School of Applied Science. Credit will be allowed for these subjects only after special investigation as to the merit of the work done. The content of these courses is essentially the same as that adopted by the Association of Colleges and Preparatory Schools of the Southern States.

BOOKKEEPING: ..... 1. unit

A one-year course covering the simple forms in single and double entry bookkeeping.

* A credit of one unit is given only when the course is accompanied by laboratory work, a suitable record of which is kept in a notebook. In case the laboratory work is omitted only .5 unit will be allowed.

COMMERCIAL ARITHMETIC: ..... 1. unit

A one-year course such as is contained in any standard textbook of commercial or business arithmetic.

COMMERCIAL GEOGRAPHY: ..... .5 units

A half-year course such as is contained in any standard textbook.

GENERAL AGRICULTURE: ..... 1. unit

A one-year course consisting of three recitation periods and two double laboratory periods a week, extending through one school year. In case the laboratory work is omitted only .5 unit will be allowed.

MANUAL TRAINING: ..... 2. units

A total of not more than two units may be presented from the list of courses in shop work recommended by the Committee on Manual Training of the Southern Commission on Accredited Schools. The time required for each unit is to be not less than 240 sixty-minute hours.

STENOGRAPHY AND TYPEWRITING: ..... 1. unit

Credit will be allowed for work in these two subjects only if presented together. Neither subject will be credited separately.

PRESCRIBED SUBJECTS

The subjects which a student offers for admission should be chosen with a view to conforming to the following specific requirements of the College or School which he wishes to enter:

THE COLLEGE OF LIBERAL ARTS

English *a, b, c,*		3.	units
History *a,*		1.	unit
Mathematics *a, b, c,*		2.5	units
Select two	Greek *a, b,* ...2. units Latin *a, b, c, d,* 3.7 units German *a* ....2. units French *a,* ....2. units Spanish *a,* ...2. units	4. or	5.7 units
Electives		4.5 or	2.8 units
Total		15.	units

THE SCHOOL OF APPLIED SCIENCE

Bachelor of Science in Chemistry

English *a, b, c,*	3.	units
History *a,*	1.	unit
Mathematics *a, b, c, d,*	3.	units
French *a,*	2.	units
German *a,*	2.	units
Science	1.	unit
Elective	3.	units
Total	15.	units

Bachelor of Science in Electrical Engineering, Civil Engineering and Geology

English *a, b, c,*	3.	units
History *a,*	1.	unit
Mathematics *a, b, c, d,*	3.	units
French *a* or German *a* or Spanish *a*	2.	units
Science	1.	unit
Electives	5.	units
Total	15.	units

For admission to the course leading to the degree of Bachelor of Science in Medicine see page 65.

THE SCHOOL OF EDUCATION

The requirements for admission to the School of Education are the same as for admission to the College of Liberal Arts.

THE SCHOOL OF COMMERCE AND FINANCE

English *a, b, c,*		3.	units
History *a,*		1.	unit
Mathematics *a, b, c,*		2.5	units
Select two	Greek *a, b*; Latin *a, b*; German *a*; French *a*; Spanish *a*	4.	units
Electives		4.5	units
Total		15.	units

THE SCHOOL OF PUBLIC WELFARE

The one year and two years courses of professional training are open to graduates of colleges of good standing.

Students not eligible to the regular courses by reason of not holding a degree may be admitted to special courses of one quarter or more provided they have had sufficient general education and practical experience to insure satisfactory work, and conform to University requirements.

THE GRADUATE SCHOOL

Holders of Bachelor's or Master's degrees from standard colleges are admitted to the Graduate School upon presentation of their credentials and without examination. Upon the vote of the Administrative Board other mature persons may be admitted as special students in courses for which they are qualified. Every student must bring to the office of the Graduate School, at the time of registration, a program of studies approved by the Department in which the proposes to specialize, or, in the case of special students, the permission of the Department to register for certain specified courses.

THE SCHOOL OF LAW

Candidates for the Degree of LL.B.

Students who are candidates for the degree of LL.B. must have completed eighteen courses, or their equivalent, of college work in subjects approved by the Law Faculty in the University. For the present students may be admitted with a minimum of fourteen courses, or their equivalent, provided they make up the remaining four courses at the Summer Schools of the University.

Students Not Candidates for the Degree

Students taking regular work in the school, but not candidates for the degree, must, unless they are "special students," present 15 units for entrance credits in the Freshman class of the University.

Special Students

Men twenty-one years of age may for the present be admitted as special students upon satisfying the Law Faculty that they have such training as will enable them to profit by the instruction given in the School.

Admission to Advanced Standing

A student from another law school in which the requirements for admission are at least as high as in this school, may be admitted to advanced standing for the degree of LL.B. As a rule no more than one year's work will be so credited without residence, but with the consent of the Law Faculty, two years work may be credited in exceptional cases. A student seeking admission to advanced standing must present satisfactory evidence that the work taken in another school is substantially equivalent to that given in the corresponding year here, both in the character of the work covered and in the amount of time devoted to each subject.

THE SCHOOL OF MEDICINE

I. Requirements for Admission to the Pre-Medical Course:

English *a, b, c,*	3.	units
History *a,*	1.	unit
Mathematics *a, b, c,*	2.5	units
Select one: Greek *a, b*; Latin *a, b*; German *a*; French *a*; Spanish *a*	2.	units
Electives	5.5	units
Total	14.	units

II. Requirements for Admission to the course leading to the degree of S.B., in Medicine:

English *a, b, c,*	3.	units
History *a,*	1.	unit
Mathematics *a, b, c,*	2.5	units
German *a*	2.	units
French *a*	2.	units
Electives	4.5	units
Total	15.	units

III. Requirements for Admission to the Medical Course. The requirements for admission to the medical course are 2 years (60 semester hours) of college work, which must include a minimum of twelve semester hours in Chemistry (including 4 semester hours of Organic Chemistry), eight semester hours in Biology, eight

semester hours in Physics, six semester hours in English, and six semester hours in a Modern Language (French or German). *Students will not be admitted with less than the total of sixty semester hours, nor with less than the required number of hours in Science and Language subjects.*

IV. Admission to Advanced Standing. Candidates for admission to the second year of the medical course must present certificates from an accredited medical school stating that they have had the required fourteen units, the two years of college work as indicated in Section II, and have completed the subjects of the first year of the medical course as outlined on page 181.

THE SCHOOL OF PHARMACY

Candidates for the degrees of Ph.G., Ph.C., or P.D., must be on entering at least seventeen years old, and must have completed either a high school course of study or must present evidence of 14 units. They may, however, enter a one-year special course without this prerequisite.

EXPENSES

Every effort is made to reduce to the lowest point the necessary expenses of an education at the University. The entire annual expenses need not exceed $400 and they frequently may be reduced to $300.

TUITION

College of Liberal Arts:

Tuition fee each quarter	$20.00
*Matriculation fee each quarter	12.00
Total each quarter	$32.00

School of Applied Science:
Same as for the College.

School of Education:
Same as for the College.

School of Commerce:
Same as for the College.

School of Public Welfare:
Same as for the College.

Graduate School:
Same as for the College.

School of Law:

Tuition for Fall and Spring Terms, each	$37.50
Registration Fees, each Term	17.50

School of Medicine:

Tuition fee, including all fees (except damage fee), each quarter	$67.00

School of Pharmacy:
Same as for the College.

FEES

Damage Fee: Each student must keep on deposit with the Treasurer $2 as security for damages. Wilful damage to University property is charged to the perpetrator, if known; otherwise it is charged to the general deposit for damages. Any balance is returned to the student at the end of the year.

* This fee includes the gymnasium fee, the library fee, the fee for attendance of the University physician and of the University nurse, and the fee for athletics.

LAUNDRY FEE: Students will be required to send their washing to the University Laundry for which a small fee will be collected at the time of registration.

LABORATORY FEES: Every student taking a laboratory course must pay, in addition to his tuition fee, a small fee for power or materials used in the laboratory. The fees for the various laboratory courses are as follows:

ACCOUNTING

1-2-3	$2.00 a quarter	7-8	$2.00 a quarter
4-5-6	2.00 a quarter	9	2.00

BOTANY

1	$4.00	4-5-6	$4.00 a quarter
2	4.00	107-108-109	4.00 a quarter
3	4.00	110-111-112	4.00 a quarter

CHEMISTRY

1-2	$ 4.00 a quarter	63	$ 7.00
1-2E	4.00 a quarter	70	7.00
21-22-23	10.00 a quarter	71	7.00
31	10.00	72	7.00
41	10.00	73	7.00
42	10.00	81	4.00
44	7.00	82	4.00
45	7.00	127-128-129	10.00 a quarter
46	7.00	177-178-179	10.00 a quarter
47	7.00	197-198-199	10.00 a quarter
61	7.00		
62	7.00		

CIVIL ENGINEERING

1	$2.00	19	$3.00
5	2.00	20	3.00
9	2.00	21	3.00
10	2.00		
11-12	2.00 a quarter		
16	3.00		

ELECTRICAL ENGINEERING

1-2-3	$3.00 a quarter	40-41-42	$3.00 a quarter
10-11-12	6.00 a quarter	43-44-45	3.00 a quarter
20-21-22	3.00 a quarter		
30-31-32	3.00 a quarter		
33-34-35	3.00 a quarter		

GEOLOGY

1-2	$3.00 a quarter	12	$3.50
3-4	5.00 a quarter	13	3.50
5-6	3.50 a quarter	14	3.50
7	3.00	21-22	2.50 a quarter
8-9	3.50 a quarter	23-24	2.50 a quarter
10	3.50	25	2.00
11	3.50		

PHARMACY

4	$5.00 a quarter	5	$10.00

PHYSICS

1	$2.50		
2	2.50	3-4	$2.00 a quarter

PSYCHOLOGY

10-11-12	$2.00 a quarter	101-102-103	$2.00 a quarter

ZOOLOGY

1	$5.00	5	$5.00
2	5.00	6-7-8	3.00 a quarter
3	5.00	109-110-111	5.00 a quarter
4	5.00		

Board

Excellent board is furnished at Swain Hall for $22.50 a month. A few students can earn their board by waiting on the tables.

Board without room can be obtained in the town from $22.50 to $35 a month.

Dormitory Accommodations

Accommodations for something over five hundred students are available in the University dormitories. For a list of the dormitories see page 43.

All rooms in the dormitories are completely furnished. Students will, however, provide their own pillow, bed linen (single beds) and towels.

Room rent ranges from $3.00 to $8.00 a month for each occupant, the price depending upon the location of the room. This charge includes light, heat and service.

PECUNIARY AID

FELLOWSHIPS AND SCHOLARSHIPS

The Ledoux Fellowship in Chemistry. (Established in 1911 by Dr. Albert R. Ledoux). The holder is expected to devote himself to research in chemistry. This fellowship is endowed, and yields $300 annually.

The Julian S. Carr Fellowship, endowed in 1916 by General Julian S. Carr. A fellowship valued at about $300 to be awarded at Commencement each year to a member of the rising Junior class or Senior class who has shown by the high scholastic quality of his work that he is worthy of help, and who, during his first years in college, has earned his way in whole or in part. The holder of this fellowship is selected by a faculty committee, and applications should be made before May 15.

The Cameron Scholarships. (Established in 1892.) The heirs of Paul Carrington Cameron founded in his memory ten scholarships of the value of $60 each.

The Dialectic and Philanthropic Literary Societies' Scholarships. (Established in 1893.) The Dialectic and Philanthropic Literary Societies of the University founded two scholarships of the value of $60 each, recipients of which shall give assistance in the Library.

The Moore Scholarships. (Established in 1881.) Bartholomew Figures Moore, of Raleigh, bequeathed $5,000, the interest of which shall be devoted to paying the tuition of students.

The Mary Ann Smith Scholarships. (Established in 1891.) Miss Mary Ann Smith bequeathed $37,000 for the foundation of scholarships, the number of scholarships to be determined by the amount of the income.

The Mary Ruffin Smith Scholarships. (Established in 1885.) Miss Mary Ruffin Smith bequeathed to the University, in memory of her brother, Dr. Francis Jones Smith, a valuable tract of land in Chatham County of 1,460 acres, known as Jones' Grove.

The will provides that rents of the land, or the interest on the purchase money if sold, shall be used to pay the tuition of such poor students as the faculty shall appoint.

The Speight Scholarships. (Established in 1892.) The late Mrs. Mary Shepard Speight bequeathed $10,000 to the University. The income shall be used to pay the tuition of needy students; but if tuition is ever made free, the income shall be used toward paying the salaries of the professors.

The Wood Scholarship. (Established in 1892.) Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her late husband, Dr. Thomas Fanning Wood, a scholarship of the value of $60.

The Weil Scholarship. (Established in 1898.) A fund established by Mr. Henry Weil, of Goldsboro, furnishes one scholarship of the value of $60.

The Armfield Scholarships. (Established in 1901 and 1904.) These scholarships are founded by the generosity of Mr. Eugene M. Armfield, of the Class of 1888, High Point, N. C.

The Alumni Scholarships. These scholarships have been established by the gifts of Alumni. A scholarship will be awarded for each $1,000 given.

The Kenneth Murchison Scholarships. (Established in 1904.) These scholarships have been founded by Mrs. Shirley Carter, of Baltimore, Md., and the late Mrs. James Sprunt, of Wilmington, N. C., in memory of their father. They are awarded by the founders.

The R. H. Lewis Scholarships. Four scholarships, endowed by the University Gymnasium Association, and called The R. H. Lewis Scholarships, are assigned by the President, and are good for tuition in the Academic Department.

The Donald Fairfax Ray Scholarship. (Established in 1919.) Mrs. N. W. Ray, of Fayetteville, N. C., has established this scholarship in memory of her son, Donald Fairfax Ray, a graduate of the University, who died while in the service of his country.

None of these scholarships is open to students in the Schools of Law, Medicine, and Pharmacy.

All applications for scholarships must be filed in the President's office on or before September 1, and must be in the regular form prescribed by the University. Blank forms are supplied on application to the President.

FREE TUITION

By an act of the Legislature in 1887, free tuition is given to candidates for the ministry, to the sons of ministers, to young men under bodily infirmity, to teachers, and to young men preparing to teach. In order to secure this free tuition, young men preparing to teach must agree to teach in North Carolina for at least two years after leaving the University. This enables the University to aid effectively the public school teachers of the State.

LOAN FUNDS

THE DEEMS FUND. (Established in 1879.) A fund of $600 was established by Rev. Charles Force Deems, D.D., late pastor of the Church of the Strangers, New York City, formerly a professor in the University, in memory of his son, Lieut. Theodore Disosway Deems. In 1881 the gift was greatly enlarged through the munificence of Mr. William H. Vanderbilt by a gift of $10,000 "as an addition to the Deems fund, to be loaned to indigent students of the University.

THE MARTIN FUND. This fund has been established by the bequest of Mr. Thomas D. Martin, of Raleigh. Only the interest of the fund can be used for loans. It became available during the session of 1907-1908.

THE HOGUE FUND. A fund of $4,000 has been established by the Rev. R. W. Hogue, of Baltimore, the income from which is to be loaned to worthy students in the University.

THE HEWITT FUND. A fund of $20,000 was established by the bequest of Mr. Joseph Henry Hewitt, of Princess Anne County, Virginia. Only the income from this fund can be used for loans to "needy and deserving students" of the University. This fund became available during the session of 1919-1920.

The Holt Fund. A fund of $10,000 has been established by Mr. Lawrence S. Holt, Jr., of Burlington. The principal of this fund is to be loaned to "worthy and needy students of the University." The income from this fund is to be used in establishing four scholarships in the University. It became available during the session of 1920-1921.

The Victor S. Bryant Fund. A fund of $7,500 has been established by the bequest of Mr. Victor S. Bryant, of Durham. Only the interest of this fund can be used for loans to "worthy and needy young men" at the University. This fund became available during the session of 1920-1921.

All applications for loans must be filed in the President's office on or before September 15.

Applications for loans will not be considered unless accompanied by testimony from responsible persons as to poverty and merit. The funds are limited in amount and are loaned only on the security of two approved signatures and at the legal rate of interest.

SELF HELP

It is confidently believed that no institution offers wider opportunities for self-help to meritorious students of slender means. The desire is that no worthy boy, however poor, shall ever be turned away for lack of means. To such the University and town offer unusual opportunities for support. Many students are now working their way through college by every form of honorable labor. A number are here as a result of money earned or borrowed. A few students are selected by the authorities as waiters at Swain Hall. Otherwise, all opportunities available in the University and town must be secured by the personal efforts of the individual, or with the assistance of the Faculty Committee on Self-Help. They are not assigned by the President.

MEDALS AND PRIZES

The Mangum Medal in Oratory. (Established 1878.) A gold medal founded by the Misses Mangum, late of Orange County, in memory of their father, Willie Person Mangum, is continued by his granddaughter, Mrs. Stephen B. Weeks, and awarded to that member of the Senior Class who shall deliver the best oration at Commencement.

The Bingham Prize in Debate. (Established in 1899.) This prize is offered by Mr. R. W. Bingham in memory of his great-grandfather, grandfather, father, and brother. It is given annually for excellence in debate. The contestants are representatives of the Literary Societies, and the contest is held on Tuesday evening of Commencement week.

The Kerr Prize in Geology and Mineralogy. (Established in 1889.) A prize of $50 is offered annually by Mr. William H. Kerr in memory of his father, Professor Washington Caruthers Kerr, to any undergraduate or graduate student for the best thesis containing original work in the geology or mineralogy of North Carolina.

The Eben Alexander Prize in Greek. (Established in 1887.) A prize of $10 is offered annually to that member of the Sophomore Class who shall present the best rendering into English of selected passages of Greek not previously read.

The Worth Prize in Philosophy. (Established in 1883.) Mr. Charles Williams Worth, in memory of his father, David Easton Worth, of the Class of 1853, will print the best thesis submitted by a student in Philosophy 16-17-18.

The Early English Text Society Prize. (Established in 1886.) A special prize is offered annually by the Early English Text Society of London for advanced work in Anglo-Saxon and Middle English.

The Bryan Prize. (Established in 1903.) A prize will be given annually by Mr. William Jennings Bryan for the best thesis in Political Science.

The Hunter Lee Harris Memorial. (Established in 1903.) Dr. Charles Wyche, of St. Louis, offers annually, in memory of Hunter Lee Harris, of the Class of 1893, a gold medal for the best original story by any student in the University.

The William Cain Prize in Mathematics. (Established in 1908.) A gold medal is offered annually by Professor William Cain to that student who shall take the highest rank in Mathematics 11-12. No student will be recommended for the prize unless he attain to grade 2.

The Preston Cup, given by the Hon. E. R. Preston in memory of his brother, Ben Smith Preston, will be awarded annually to the undergraduate student who during the months September to April has done the best work of a journalistic nature.

Mary D. Wright Memorial Medal, given by Mr. P. E. Wright of Landis. A $25 gold medal will be awarded annually to the best speaker in the winning team of the two Literary Societies.

Stanton Byrd McKinnon Memorial Medal. A gold medal awarded through the generosity of Mrs. Graham McKinnon, of Rowland, in memory of her son, Stanton Byrd McKinnon, a prospective student of the University of North Carolina, to be given annually to that member of the Freshman Class who makes the highest grade in Freshman English.

Certain prizes are offered also in the Professional Schools of Law, Medicine, and Pharmacy. For these, see under the several schools.

REGULATIONS

REGISTRATION

All students are expected to present themselves for registration *Tuesday* or *Wednesday, September 27* or *28, 1921,* between the hours of 9 a. m. and 5 p. m., at the office of the Registrar. For the Winter and Spring terms the same hours will be used on days fixed by the calendar for the registration of students.

ARRANGEMENT OF COURSES

Every student, when he presents himself for registration, must submit a list of courses, required and elective, which he desires to pursue.

No student will be allowed to take less than three nor more than three and one-half courses without special permission of the Faculty.

Students desiring to change their courses must make written application to their respective Deans for the desired change. The application will be considered by the Dean and will be granted only after a careful consideration of the facts in each case. No changes will be permitted after the first Tuesday following the registration days except such as are granted after application to, and approval by, the Faculty. A fee of twenty-five cents will be charged for each item of change.

Candidates for more than one degree shall not offer the same elective in two courses nor a required study in one course as an elective in another.

ASSIGNMENT OF ROOMS

The rooms in the University dormitories are assigned to students by the Treasurer in the order of application, subject to the special regulations given below.

The University reserves the right to require any student whom for any reason it considers an undesirable tenant to vacate a room in the University buildings.

All occupants are required to sign a contract, subject to the following special rules:

In order to retain his room for the next session, a student must file with the Treasurer before May 20th a room contract properly

signed. Double rooms must be signed for by both intending occupants. The rooms thus signed for will be retained until the last day of registration, provided a deposit of $5 be paid by each intending occupant before August 1. The $5 deposit will be forfeited in case the signer or signers do not themselves occupy the room and pay the full rent. Rooms not signed for or forfeited by failure to pay at the proper date will be assigned in the order of application. No dogs shall be kept in the University dormitories. Breach of this regulation leads to forfeiture of the room.

The right to occupy a room is not transferable and terminates with the expiration of the lease. Any attempt on the part of an occupant of a room to sell or transfer his right to occupancy shall be deemed a fraudulent transaction. The penalty of violating this rule shall be the forfeiture of the room by the new lessee.

The occupant of a room will be held directly responsible for any damage done to the furniture supplied in his room by the University.

CONDUCT

By order of the Board of Trustees the Faculty is directed to dismiss from the University any student who is known to engage in drinking intoxicating liquors, gambling, hazing in any form (presence at hazing is regarded as participation), or to be guilty of dissolute conduct.

Students persistently neglectful of duty, or addicted to boisterous conduct or rowdyism, may be required to leave the University.

Honorable dismissal has reference to conduct and character only. It will not be granted unless the student's standing as to conduct and character is such as to entitle him to continue in this University. Furthermore, in every statement of honorable dismissal full mention will be made of any probation, suspension, or other temporary restriction imposed for bad conduct which is still in force when the papers of dismissal are issued.

Statement of record has reference to the recorded results of a student's work in the classroom. It will in every instance contain all the important facts pertaining to the student's admission, classification and scholarship. In particular, no partial or incomplete classroom record (for example, with failures omitted) will be given without clear evidence that it is partial or incomplete. If the student's scholarship has been such as to prevent his continuance in this University or to render him subject to any probation, suspension, or other temporary restriction which is still in force at the date of the record, a plain statement of any and all such facts will

be included, and such information will be given as will make clear the system of grades employed, the number of exercises a week devoted to each course, etc.

ATTENDANCE

Regular attendance upon lectures and recitations is required of all students.

In any term, absences are counted from the first regular meeting of each class. In no case will a student be considered present at any class until he has been registered as a member of that class.

When a student's absences from a class during any term amount to 20 per cent of the scheduled meetings of the class, he may, at the discretion of the Department, be dropped from the course. The Department will be notified when a student has incurred absences amounting to 10 per cent, and again when he has incurred absences amounting to 20 per cent.

At the same time the Department will be supplied with a statement of the number of absences warranted by the College Physician's report or by a leave of absence. When at least half the absences of a student in any course are due to prolonged sickness or to leaves granted by the Registrar, or to representing the University as a member of an authorized student organization, the student shall not be dropped from such course without the concurrence of the Dean of his school.

A student who has been dropped for absences from a sufficient number of classes to reduce his schedule to one course will be suspended from the University for the remainder of the term on the ground of neglect of duty.

A student who is absent from any class without permission on the day immediately preceding or immediately following a holiday or recess will be put on strict probation by the Executive Committee for such length of time as the Committee may determine.

Attendance at chapel is compulsory for all students in the University, except for members of the professional departments and for such others as are specially excused. Absence from chapel will subject the student to discipline by the Executive.

No student is allowed to absent himself from the University without written permission from the President or his representative. This permission may, at the discretion of the executive officer, be granted only upon the formal request of the parent or guardian.

EXAMINATIONS

Regular examinations on all subjects are held at the close of each term. Excuses from examinations are granted only in case of absolute necessity.

Freshmen, Sophomores, and Juniors who have received the grade 5 (see page 80) in any subject will be given one, and only one, opportunity to make good the deficiency by special examination. Examinations on a subject may be made good in the following September, according to the schedule given below, or at the first regular term examination in the same subject after the grade 5 was made. In case a student fails in the special examination, he must repeat the subject in order to gain credit for the course. If the unremoved condition be in an elective subject not offered for the succeeding term, the student must take another elective of the same credit value.

Seniors who have received the grade 5, or have been officially excused, in any subject will be given but one opportunity to make good the deficiency by special examination, viz., during the next regular examination period in March or June.

Papers handed in at special examinations by students who have been officially excused from the regular examination will be graded. All others will be marked either "passed" or "failed." Students who hand in papers at regular examinations are considered to have relinquished any claim to grades on special examinations. Students who, through sickness or otherwise, are officially excused from regular examinations must consult with the Registrar with regard to arranging for special examinations.

Students who absent themselves from regular examinations without having obtained an official excuse, and those who are present at the regular examinations, but do not hand in papers, are marked "absent." They are required to repeat the subject with a lower class, or, in case of an elective not offered later, to take another elective of the same credit value. In computing averages a mark of "absent," unless excused, is reckoned as grade 6.

A student wishing a special examination in any subject must deposit an application in the office of the Registrar at least one week before the beginning of the period of examinations.

Each student is required to subscribe his name to the following pledge on every paper: *"I hereby certify that during this examination I have neither given nor received aid."* No paper without the pledge will be read.

The order of examinations for the removal of conditions in September, 1921, will be as follows:

Wednesday, September 21

10 A. M.	Physics	2:30 P. M.	Latin
	Mathematics		Botany
	Economics		English
	Romance Languages		

Thursday, September 22

10 A. M.	Geology	2:30 P. M.	Physics
	History		Greek.
	Chemistry		Bus. Organ.

Friday, September 23

10 A. M.	Chemistry	2:30 P. M.	Latin
	Philosophy		English
	Accounting		Education
			German

Saturday, September 24

10 A. M.	Mathematics	2:30 P. M.	German
	Zoology		Civil Engineering
	Romance Languages		Electrical Engineering
	Economics		History

STANDING

After the close of each term reports of the standing of all students in all their studies are sent to parents or guardians. The reports are based upon the following systems of marking:

Grade 1, 95-100 per cent
Grade 2, 90- 95 per cent.
Grade 3, 80- 90 per cent.
Grade 4, 70- 80 per cent.
Grade 5, 60- 70 per cent.
Grade 6, below 60 per cent.

Students must attain a grade of 4 to pass in any study. Grade 5 indicates that the student is conditioned, but may remove the deficiency by special examination, as explained on page 79. Students receiving grade 6 in any study must take such study again

with a lower class, or in case of an elective not offered later, must take another elective of the same credit value. An unexcused absence counts as grade 6.

A student to be ranked as a Sophomore must have passed six courses; to be ranked as a Junior, fifteen courses; to be ranked as a Senior, twenty-six courses.

No first-year student who fails to pass at least four courses, and no second or third-year student who fails to pass six courses, shall be readmitted to any division of the University the following year except by a special vote of the Faculty or a delegated committee of the Faculty.

CERTIFICATES

A certificate is granted to a student who has completed with credit in a department all work required for a degree, together with elective work in the same department. (For detailed statement of requirements, see under the several departments of instruction.)

GRADUATION

Each Senior will be officially informed by the Registrar in September of all deficiencies standing against him.

The number of orations in the contest for the Mangum Medal is limited to four. The candidates must be Seniors in the College, the School of Applied Science, or the School of Commerce, and must announce their subjects to their respective Deans by February 1. The orations shall be delivered in private before a committee of the Faculty on May 1, who shall decide upon the relative merits of the orations. The four successful candidates are known as the Commencement Orators of the Senior Class.

ATHLETIC AND OTHER ORGANIZATIONS

1. No student will be allowed to take part in athletic contests, concerts, debates, etc., entailing absence from the University whose parent or guardian objects to such participation.

2. A student who was in attendance upon the University during a previous quarter must have passed satisfactory examinations upon at least two full courses or their equivalent before he will be allowed to represent the University in any athletic contest or in any other public capacity.

3. No student reported as deficient in a majority of his classes may participate in any athletic contest or otherwise publicly represent the University until the deficiency is made good.

4. No team or club will be allowed to be absent from the University for more than ten lecture days during the term.

5. The manager of each athletic team or musical club shall submit to the Athletic Committee or to the President a schedule of all engagements before positive arrangements are made.

6. No student shall play upon the University athletic teams except after physical examination by the Director of the Gymnasium (or by a responsible expert officer of the University acting in his stead and by his request) and with the approbation of the Director.

7. Inasmuch as a member of an athletic team of this University is a representative student and enjoys special honor in thus representing the University, this privilege shall be withheld from any student whose scholastic standing is discreditable. A preliminary report of the scholastic standing of the members of the football team shall be called for on October 15 and of the baseball team on March 15, and the players notified of their deficiencies. Another report shall be called for on November 15 for the football team and on April 15 for the baseball team, at which time any player deficient in a majority of his studies shall be debarred from representing the University during the remainder of the term.

8. The members of any athletic team may be allowed not more than ten lecture days leave of absence from the University for the purpose of engaging in athletic contests, but no student who is a member of more than one athletic team shall be allowed more than twenty lecture days leave of absence during the entire session for such purpose.

9. Before any student can become a member or a substitute member of any athletic team in the University and take part in any intercollegiate contests he must make application to the Faculty Committee on Athletics in the University and secure the indorsed approval of that committee to his application. It shall be the duty of the Faculty Committee on Athletics to have the executive officers of the University indorse such application to the effect that the applicant is a registered student of the University.

10. It shall be the duty of the Faculty Committee on Athletics to inquire into and make a record of the athletic experiences of the applicant, and it shall be the duty of the applicant to appear

before the committee and answer on his honor such questions as the committee may see fit to ask.

11. It shall be the duty of the Faculty Committee on Athletics to require a pledge in writing of the applicant, certifying on his honor that he has never accepted, directly or indirectly, remuneration, compensatory gift, valuable consideration, or promise thereof, for his athletic services, and that he is in the proper and strict sense of the word an amateur player in collegiate athletic sports, before the committee indorses his application.

12. It shall be the duty of the graduate manager, the head coach, the president and the treasurer of the Athletic Association, the members of the Athletic Council, the director of the gymnasium, and the manager and the captain of the team concerned to furnish the Faculty Committee on Athletics, on request, a statement to the effect that each member of an athletic team is above their suspicion as to his elegibility to represent the University as an amateur player before such player shall be allowed to take part in any contest.

13. No student shall participate in any intercollegiate football or baseball contest during his first college year; and in no case shall a student be eligible for these teams unless he shall have registered in this University not later than within one week after the opening of the preceding winter term and shall have been a student here during the said term.

14. No person whose name appears in the catalogue list of officers of instruction and administration of the University, and who receives remuneration therefrom, shall be a member of any athletic team representing the University.

15. The maximum period of eligibility for baseball and football shall be four years. In estimating the period of eligibility the years of baseball and football shall both be taken into account; but in no case shall a player be charged with four years athletic work unless at least four calendar years have elapsed from the time he entered upon his first intercollegiate contest, omitting from the calculation any sessional intermission by nonattendance. In case the player does not participate in either baseball or football during a college session, such session shall not be counted, but if such player does play on either the baseball or football team during any intermediate session, this shall count as if the player had played on both teams during such session.

16. No student of this University shall be eligible for any athletic team who shall have played upon or been a member or substitute member of any of the professional or league teams

named in Classes A, B, C, and D in the publication of the American Sports Company. To the list of professional teams thus prescribed shall be added all league teams in any State or States which the leading university of such State or States declares professional and from which it debars its own players.

17. The Faculty Committee on Athletics is directed to assume responsible charge of the details of the athletic situation and to permit the playing of intercollegiate games with such colleges only as express a general conformity with the code of rules adopted by this faculty. The term "general conformity" is interpreted to mean conformity in regard to period of residence, maximum period of eligibility, and amateur standing.

18. Any student who is registered in the University for his first session is eligible for the First-Year Athletic Teams, subject to the following conditions:

a. The general eligibility rules shall be enforced as far as they are applicable.

b. No student shall be eligible for one of these teams who has been a member or a substitute member of the "Varsity" or the First-Year team in the same sport at any other institution of collegiate grade having an enrollment of one hundred and fifty or more male students.

FRATERNITIES

Undergraduate students may join fraternities after registration in their Sophomore year. Fraternity men are not allowed to pledge Freshmen to join fraternities.

STUDENT GOVERNMENT

The student body of the University is self-governing. The functions of this government are both disciplinary and constructive. These functions are exercised by the Student Council and the Campus Cabinet, respectively.

THE STUDENT COUNCIL

W. R. Berryhill, *President.*
M. W. Nash, *Secretary.*

A. M. McDonald, Jr.	J. L. Cobb
R. L. Murray	C. W. Phillips
E. M. Currie	B. B. Liipfert

The Student Council is composed of eight members, as follows: the presidents of the three upper academic classes, one representative from each of the professional schools, one representative elected from the student body at large, and one representative elected by the other seven members of the Council. The member elected by the Council must be chosen from among those who have served on the Council before. The President of the Senior Class is *ex officio* Chairman of the Council, and the President of the Junior Class *ex officio* Secretary

Student government, in so far as it is disciplinary, is based upon the honor system. No code of rules is laid down to direct a student what to do and what not to do. The only standards are those of morality and gentlemanly conduct. The Student Council is the head of the honor system. It is the concrete expression of the moral University. Its members being elected of the students by the students, it is grounded upon, and gives expression to, student sentiment. The Council is not an organization of policemen, nor is it based upon a system of espionage. When any student is felt by his fellow students to be unworthy to remain in the University, the Council takes cognizance of this feeling. It examines the matter, finds the facts in the case, and decides upon the course to be pursued. If the student is found guilty of conduct unworthy of a University man, he is promptly required to withdraw from the University. Among the offenses demanding withdrawal may be mentioned drunkenness, cheating on examination, and gambling.

THE CAMPUS CABINET

JOHN KERR, *President.*
ALLEN MCGEE, *Secretary.*

Members of the Cabinet

W. R. BERRYHILL	MORRIS MCDONALD
W. R. WUNSCH	C. HOLDING
M. W. NASH	B. M. GILLON, JR.

The Campus Cabinet is an organization composed of representative students selected by the President of the Senior Class. These representative students are chosen from the four academic classes, the Law, Medical, Pharmacy and Graduate Schools, and from the Young Men's Christian Association. The object of this organization is to study campus conditions and campus problems and to relate them to the "greater University." It attempts to work out all problems the solution of which would make life of the students more wholesome and more enjoyable. It is not an executive body, mainly, but a suggestive body. It takes up such questions as the social life of the students, the athletic situation as it concerns the entire student body, dormitory improvements, and many other things that it thinks will benefit the students. It is a flexible body and is always ready to discuss and aid any worth while matter that a student presents to it.

RESERVE OFFICERS TRAINING CORPS

The War Department has established at the University an infantry unit of the Reserve Officers Training Corps. The following is an extract from Special Regulations No. 44:

"The primary object of the Reserve Officers Training Corps is to provide systematic military training at civil educational institutions, for the purpose of qualifying selected students of such institutions as Reserve Officers in the military forces of the United States. It is intended to attain this object during the time that students are pursuing their general or professional studies with the least practicable interference with their civil careers, by employing methods designed to fit men, physically, mentally and morally, for pursuits of peace as well as pursuits of war. It is believed that such military training will aid greatly in the development of better citizens. It should be the aim of educational institutions to maintain one or more units of the Reserve Officers Training Corps in order that in time of national emergency there may be instantly available a large number of educated men, physically efficient and trained in the fundamentals of military science and tactics, and fitted to lead intelligently the units of the armies upon which the safety of the country will depend. The extent to which this object is accomplished will be the measure of the success of the Reserve Officers Training Corps.

The Reserve Training Corps is organized under authority of Act of Congress of June 3, 1916, as amended by Acts of Congress September 8, 1916, and July 9, 1918.

A military unit is largely dependent for its efficiency upon its physical fitness of the individuals composing it. Physical training, therefore, will form an essential part of the military instruction. It will be the policy to encourage and support the physical training given by the civilian teachers, thus co-operating with all other effective agencies in an effort to promote a more vigorous American manhood.

The policy adopted by the War Department to carry out the provisions of the Act of Congress of June 3, 1916, is a matter of vital importance to every citizen interested in the educational system of our country and the development of the American

youth. It will aim to give all students of the Reserve Officers Training Corps a thorough physical training, to inculcate in them a respect for all lawful authority, to teach the fundamentals of the military profession, leadership, and the special knowledge required to enable them to serve efficiently in the various branches of the military service. The War Department aims to establish in selected civil educational institutions a system of training which will tend towards making better citizens and furnish a means whereby the graduates of such institutions can function more advantageously to the best interest of the nation in time of military necessity."

A student who elects to take the training in the University unit of the Reserve Officers Training Corps does so under the following regulations:

1. The freshman electing the work, accepts it as a prerequisite for graduation. He devotes to the course three hours per week. After he has completed the Basic Course, of the Freshman and Sophomore years, he decides whether he desires to continue the work to receive a Reserve Commission. If he is recommended by the President of the University and the Professor of Military Science and Tactics for such continuance, and if he desires to continue the work, he signs a written agreement with the Government as follows:

"In consideration of commutation of subsistence to be furnished me in accordance with law, I hereby agree to continue in the Reserve Officers Training Corps during the remainder of my course in the University of North Carolina (not to exceed two years), to devote five hours per week during such period to the military training prescribed, and to pursue the course of camp training during such period, prescribed by the Secretary of War."

Commutation of subsistence is now paid at the rate of $16.00 per month. This sum is paid to the student during the last two years of his university course. The camp referred to above is held at the completion of his Junior year, and is for duration of six weeks. The student is furnished mileage to and from camp, and subsistence while there.

2. Complete uniforms, equipment and books are furnished to the students who elect this work. These uniforms must be worn during the hours of recitation and drill.

3. There is a camp held for those desiring to attend it at the completion of the Freshman year. Special uniforms are issued to the student for wear at this camp.

4. During the first two years of this course a student may be discharged from this work for sufficient reasons by obtaining the approval of the President of the University and the Professor of Military Science and Tactics.

5. Academic credit of one full course is given each year for this work.

For detailed statement of courses in the R. O. T. C. see page 309.

PUBLIC LECTURES

ARCHIBALD HENDERSON, *Chairman, Committee on Public Lectures.*

THE JOHN CALVIN McNAIR LECTURES

The lecture fund established by the will of John Calvin McNair, of the class of 1849, became available in 1906, and the interest therefrom rendered it possible to begin the lectures in 1908. The honorarium for the lectures amounts to $500, and the remainder of the interest from the fund provides for the suitable publication of the lectures. Under the will the objects of the lectures "shall be to show the mutual bearing of science and religion upon each other and to prove the existence of attributes (as far as may be) of God from nature."

The lectures for 1908 were delivered by Professor Francis H. Smith, LL.D., of the University of Virginia. The three lectures were:

1. The general theme: God Manifest in the Material Universe.
2. His Attributes as Manifested in Physics.
3. His Attributes as Manifested in Astronomy.

The lectures for 1909 were delivered by President Francis Landey Patton, D.D., LL.D., of Princeton Theological Seminary, New Jersey. The four lectures were:

1. The Authority of the Bible.
2. The Authority of the Church.
3. The Authority of Christ.
4. The Authority of the Reason.

The lectures for 1910 were delivered by President David Starr Jordan, Ph.D., M.D., LL.D., of Leland Stanford, Jr., University, California. The lectures were on the theme:

The Stability of Truth.

The lectures for 1911 were delivered by Professor Henry Van Dyke, D.D., L.L.D., of Princeton University. The three lectures were:

1. The Poetry of Nature.
2. The Poetry of Patriotism and Humanity.
3. The Poetry of the Unseen World.

The lectures for 1912 were delivered by President Arthur Twining Hadley, A.M., LL.D., of Yale University. The three lectures on the general subject, Some Tendencies of Modern Philosophic Thought, were:

1. Changed Conceptions of Science.
2. New Views of Ethics and of Politics.
3. The Spiritual Basis of Modern Literature.

The lectures for 1913 were delivered by Professor Francis G. Peabody, A.M., D.D., LL.D., of Harvard University. The three lectures were:

1. The Practicability of the Christian Life.
2. The Christian Life and the Modern Home.
3. The Christian Life and Modern Business.

The lectures for 1914 were delivered by President George Edgar Vincent, Ph.D., LL.D., of the University of Minnesota. The title of the series was The Social Vision, and the lectures were:

1. The Sense of the State.
2. The Larger Selfishness.
3. The Kingdom of God.

The lectures for 1915 were delivered by Professor John Dewey, Ph.D., LL.D., of Columbia University. The three lectures on the general theme, Philosophy and Politics, were:

1. The Division into the Inner and the Outer World.
2. The State and Moral Life.
3. The Philosophy of History.

The lectures for 1916 were delivered by Dean Frederick J. E. Woodbridge, A.M., LL.D., of Columbia University. The title of the series was The Purpose of History, and the three lectures were:

1. From History to Philosophy.
2. The Pluralism of History.
3. The Continuity of History.

The lectures for 1917 were delivered by Professor Hugh Black, M.A., D.D., of Union Theological Seminary. The title of the

series was The Great Questions of Life, and the three lectures were:

1. Is God?
2. Has God said?
3. Shall Man Say to God?

No lecture on this foundation was delivered in the war year, 1918.

The lectures for 1920 were delivered by Professor Edwin Grant Conklin, Sc.D., of Princeton University.

THE WEIL LECTURES

During the years 1914-1915 an unendowed lectureship on American Citizenship was established by the University. The first incumbent was ex-President William Howard Taft, who lectured on "The Presidency: Powers, Duties, Obligations and Responsibilities." Since that time this foundation, named the Weil Lectures on American Citizenship, has been permanently established through the generosity of the families of Mr. Sol Weil and Mr. Henry Weil, of Goldsboro, N. C.

The first incumbent on the Weil establishment (1915-1916) was Professor George Brinton McClellan, of Princeton University. The title of the series was American Citizenship, and the three lectures were:

1. The Nation.
2. The Law.
3. The Citizen.

The series for 1916-1917 was delivered by Mr. James A. Macdonald, editor of the *Toronto Globe*. The title of the series was The North American Idea, and the lectures were:

1. The North American Idea in the American Republic.
2. The North American Idea in the Canadian Dominion.
3. The North American Idea and America's Internationalism.

There was no series delivered in 1917-1918, owing to war conditions.

The series for 1918-1919 was delivered by Professor Jacob H. Hollander of Johns Hopkins University. The title of the series was American Citizenship and Economic Welfare, and the lectures were:

1. The Weal of the Nation.
2. The Citizen as Producer.
3. The Citizen as Consumer.

The series for 1919-1920 was delivered by the Hon. Robert Goodwyn Rhett, ex-President of the Chamber of Commerce of the United States.

UNIVERSITY LECTURES

The following University lectures were delivered during the session of 1919-1920:

Vilhjalmur Stefansson: My Life Among the Esquimaux.

Professor S. H. Clarke, University of Chicago: Reading, Percy Mackaye's Play, Washington.

THE SOUTHERN EXCHANGE LECTURESHIP

In 1914 an exchange lectureship was established by Vanderbilt University, the University of Virginia, the University of South Carolina and the University of North Carolina. Under the terms of this lectureship each university will send a lecturer to and will be visited by a lecturer from one of the other universities participating in the lecture foundation. The purposes of this lectureship are: to promote scholarship, to present in concrete form recent advances in some special branch of learning, and to bring the institutions concerned into closer relationship through exchange of ideas in regard to all vital problems affecting a modern university.

The exchange lecturer to the University for 1919-1920 was Professor John Metcalfe, Litt.D., Linden Kent Memorial, Professor of English Literature, University of Virginia. Professor George Howe delivered the lectures at the University of South Carolina.

UNIVERSITY SERMONS

Under the auspices of a Faculty Committee, University Sermons are delivered throughout the year in the College Chapel by prominent clergymen.

The sermons for the session 1919-1920 were delivered by:

Rev. W. F. Powell, D.D.
Rev. A. D. Wilcox.
Rev. G. K. Finlay.

UNIVERSITY ORGANIZATIONS

THE GENERAL ASSEMBLY OF THE PHILANTHROPIC LITERARY SOCIETY, AND THE DIALECTIC LITERARY SOCIETY

The Dialectic and the Philanthropic Literary Societies were organized in 1795, the year of the opening of the University. Their existence has been inseparably linked with that of the University and they have shown remarkable power in developing character, as well as training the intellect. They offer facilities for practice in debate, oratory, and essay writing; and their members become familiar with parliamentary law and procedure.

In 1919 the Philanthropic Society reorganized itself after the plan of the General Assembly of North Carolina, and is now the General Assembly of the Philanthropic Literary Society, and conducts its meetings as a legislative assembly.

Each society owns a large, handsomely furnished hall, the walls of which are hung with oil portraits of illustrious members, including a President of the United States, Cabinet members, Governors, etc. Meetings are held by each society every Saturday evening of the college year, admission being confined to members. Public contests in debate between the two societies are conducted throughout the year, culminating in the annual Commencement debate. There is also held each year a system of intercollegiate debates and oratorical contests.

By immemorial custom, students from the eastern half of the State usually join the Philanthropic Society, while those from the western half join the Dialectic Society (Chapel Hill being regarded as the dividing line). Although membership in these societies is entirely optional, it is earnestly recommended by the Faculty as furnishing unusual opportunities not only for literary culture, but also for the development of self-control and the power to persuade and control others.

ELISHA MITCHELL SCIENTIFIC SOCIETY

Andrew Henry Patterson, A.M., *President.*
Allan Wilson Hobbs, Ph.D., *Vice-President.*
James Munsie Bell, Ph.D., *Permanent Secretary.*
Henry Roland Totten, A.M., *Recording Secretary Treasurer*
William Chambers Coker, Ph.D., James Munsie Bell, Ph.D., Collier Cobb, D.Sc., *Editors of the Journal of the Elisha Mitchell Society.*

The Elisha Mitchell Scientific Society holds monthly meetings during the college year for the discussion of scientific subjects. A *Journal,* which is the official organ of the North Carolina Academy of Science, is issued quarterly. The object of the Society is to encourage scientific research and to record such matters as pertain to the natural history of the State. The membership is at present restricted to the faculty and students of the University, and members of the staff of the Geological Survey.

At the monthly meetings, which are ordinarily held on the second Tuesday of each month, excellent opportunities are afforded the students to get beyond the ordinary routine of the classroom by hearing, reading, and discussing papers on scientific subjects.

The *Journal* is in a measure a bulletin of the scientific laboratories of the University, and contains many articles written by research students. It is now in its thirty-sixth year. The volumes already issued contain twenty-five hundred pages. By the exchange of the *Journal* with more than three hundred scientific journals and periodicals, over ten thousand books and pamphlets have been collected, all of which are arranged in the University Library.

THE NORTH CAROLINA HISTORICAL SOCIETY

Joseph Gregoire deRoulhac Hamilton, Ph.D., *Permanent Secretary.*

The North Carolina Historical Society was founded in 1833 by Governor David L. Swain. When Governor Swain became President of the University, the Society was moved from Raleigh to Chapel Hill. Under his leadership it became the center of historical work in the State and the medium of many notable contributions to the history of the State. On March 22, 1875, through the activity of Kemp Plummer Battle, LL.D., the Society was chartered by an act of the General Assembly. The purpose of the Society is to collect, classify, and publish material illustrative of the history of the State. The Society possesses a valuable collection of books, pamphlets, manuscripts, newspaper files, coins, and other objects of historic interest. The educational aim of the Society is to create a love for historical study and to give training in scientific methods of historical investigation.

THE PHILOLOGICAL CLUB

John Manning Booker, Ph.D., *President.*
Oliver Towles, Ph.D., *Vice-President.*
John Theodore Krumpelmann, A.M., *Secretary and Treasurer.*

The Philological Club meets on the first Tuesday evening of each month during the college year. Its membership consists of the instructors and advanced students in the language departments of the University. The object of the Club is to stimulate original investigation in philology and to afford an opportunity for the interchange of views on subjects relating to such work. At each meeting papers are read and discussed. The Club publishes a journal of four issues a year whose contents are contributed by the members. All persons interested in the work of the Club are invited to attend its meetings.

DER DEUTSCHE VEREIN

The Verein was established for the purpose of stimulating interest among the officers and students of the University in German life. Weekly meetings are held throughout the year, at which the German language only is employed. Subjects of general interest pertaining to German literature, history, social life, and politics are informally discussed. An effort is made to provide students of German with an opportunity to perfect their pronunciation and to improve their control of the spoken language. It is part of the purpose of the Verein to arrange from time to time for public lectures in German. All officers and students of the University interested in the study of German are eligible to membership.

LE CERCLE FRANCAIS

Le Cercle Francais holds weekly meetings at which topics of general interest pertaining to French literature and French life, manners and customs are discussed. The French language is employed exclusively. It is the aim of the club to stimulate interest in the French language, to provide its members with an opportunity to hear idiomatic French spoken, and to use the language with more facility. All officers and students of the University interested in the study of French are eligible to membership.

MUSICAL ASSOCIATION

Paul John Weaver, *Director.*
Thomas Hoffman Hamilton, *Assistant Director.*
Marcus Cicero Stephens Noble, Jr., *President.*
Roger Ogburn, *Vice-President.*
Charles Nichols, *Business Manager.*

The aim of the association is to foster the love of music and to afford opportunity of instruction to every one interested in music. The association consists of an orchestra, a brass band, a mandolin-guitar club and a glee club, which are representative of the musical talent of the University. Each year concert tours are taken to different parts of North Carolina by the various organizations of the association.

A series of free Sunday afternoon concerts is provided by the department of music, the concerts coming on the first Sunday of each month during the school year, and being given by members of the department, student body and community.

A series of artist recitals is provided by the department during the year, some of the world's greatest musicians being brought in this way to the campus.

At least once during each year the department produces a light opera on the order of "The Mikado," which was given in 1920. Membership in the cast of these productions is not limited to the music clubs, but is open to the whole student body.

THE NORTH CAROLINA CLUB

F. F. Bradshaw, *President.*
S. H. Hobbs, Jr., *Secretary and Treasurer.*
E. C. Branson, *Chairman Steering Committee.*
Lenoir Chambers, *Chairman Publicity Committee.*
C. J. Williams, *Chairman Membership Committee.*

The North Carolina Club was organized September 25, 1914, in Gerrard Hall. Its purpose is to review, interpret and discuss the economic and social problems of the State. These problems are being explored, county by county, by the County Clubs of the University student body. The scope and details of this volunteer work are set forth in The University Extension Bulletin, No. 9, under the title, Home-County Club Studies. Every other Monday night throughout the college year the results of the County Club studies comes before the North Carolina Club for discussion and debate. The Carolina Club fills a column in the

University News Letter every week. The final aim of the County Clubs is a brief bulletin upon the economic and social problems of every county in the State.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

University of North Carolina Branch

Philip Carver Smith, *President.*
Marshall Edgar Lake, *Vice-President.*
Reginald Archibald Tillman, *Treasurer.*
Thomas Bryan Smiley, *Secretary.*

The aim of the Branch is to stimulate interest in modern problems in the various fields of electrical engineering, to provide a means for students to discuss in public various questions of a technical nature and to give them an opportunity for practice in thinking on their feet. The Branch meets semi-monthly. The papers consist of original discussions and abstracts of papers presented before the regular Institute meetings. Membership in the Branch is open to all students who are interested in electrical engineering, and all enrolled members receive the regular monthly Procedings of the Institute.

THE CAROLINA PLAYMAKERS

The Carolina Playmakers is an organization devoted to the writing and producing of plays dealing with North Carolina life, past and present. It affords the student an opportunity for the development of his talents in the various activities of playmaking, from the inception of the play to its final production. Any student properly qualified may participate in any of the various departments of the work of The Carolina Playmakers. The Director of the organization is Frederick H. Koch, Professor of Dramatic Literature in the University.

CIVIL ENGINEERING SOCIETY

S. C. Austin, *President.*
N. P. Hayes, *Vice-President.*
J. B. Broach, *Treasurer.*
T. B. Gunter, *Secretary.*

Membership in this society is open to all students interested in civil engineering. Meetings are held every other Friday night. At each alternate meeting papers and discussions are presented

by the students on topics within their practical experience or from current periodicals in engineering. The program for the other half of the meetings consists of talks by engineers engaged in practice and members of the civil engineering faculty. The purpose of the society is to stimulate interest in civil engineering by provoking discussions on live subjects and providing a contact between students, faculty and visiting engineers that is not obtained in the classroom.

YOUNG MEN'S CHRISTIAN ASSOCIATION

W. R. Wunsch, *General Secretary.*
Donnel Van Noppen, *President.*
C. W. Phillips, *Vice-President.*
W. R. Berryhill, *Secretary.*
W. F. Falls, *Treasurer.*
J. H. Erwin, *Financial Campaign Manager.*
} Executive Council.

Directors: The Executive Council and

H. W. Chase	F. P. Graham
L. A. Williams	B. C. Brown
D. D. Carroll	C. T. Woollen
W. D. Moss	D. L. Grant
F. F. Bradshaw	T. C. Taylor

The Young Men's Christian Association is an organization of students which seeks by precept and example to encourage right and wholesome Christian living. In this spirit it endeavors to extend a helping and active influence to every sphere of campus activity, athletic, academic, social, and so on.

Not unaware of its essentially religious nature, it strives in every feasible way to make the religion of the campus very real and very genuine; and to uphold the Christian life as the ideal in conduct, thought, and temperament for every man. To those who are so inclined it offers unlimited opportunity for religious service. Through its support of rural Sunday-Schools, its Bible and Mission studies, its religious meetings, and its personal associations it affords every man a medium of expression in service to the Christian cause.

For an additional number it offers opportunity for community and social service. Through its work for new students, the yearly handbook and directory, bureau of employment, exchange of lost and found articles, lyceum courses, socials, receptions, and similar activities, many students are enabled to give to the community

that measure of useful service which would otherwise remain wholly unexpressed.

This year, in addition to a general enlarging of the scope of the Association's work, there have been added two elements of invaluable worth as advisory and steadying influences: a Woman's Auxiliary and an Advisory Board. Through the former the women of the University and community are given opportunity of helping shape the growth and tendencies of the Association; through the latter the same opportunity is afforded the men of the faculty, churches, and town in general.

The Departments

The work of the Association is organized as follows:

I. Study Department.—C. P. Spruill, Jr., *Chairman.*

II. Meetings Department.—C. W. Phillips, *Chairman.* Meetings, C. W. Phillips; Advertising, G. B. Porter; Music, J. G. Barden.

III. Community Department.—J. H. Kerr, *Chairman.*

IV. Extension Department.—D. L. Grant, *Chairman.* Freshmen Letters, A. M. McDonald.

V. Campus Department.—W. W. Stout, *Chairman.* Building, F. J. Weitzel; Ball-Bearings, A. I. Daughtridge; Information, H. L. Kiser.

VI. Boys' Department.—L. V. Milton, *Chairman.* Scouts, E. E. Rives and Beemer Harrell; K.O.K.A., W. R. Wunsch and H. H. Merritt.

VII. Freshmen Department. — B. C. Brown, *Chairman.* Freshmen Reception, Robert Griffith; College Night, C. P. Spruill, Jr.; Fellows, A. M. McGehee.

VIII. Financial Department.—W. F. Falls, *Chairman.* Campaign, J. H. Erwin; Lyceum, H. E. Fulton.

IX. Negro Department.—H. S. Boyce, *Chairman.* Y. M. C. A., H. A. Boyce; Night School, E. C. Hunt; Sunday-School, H. E. O'Neal; Janitor's Club, W. R. Wunsch.

X. Rural Department.—C. E. Cashatt, *Chairman.*

XI.—Social Department.—R. H. Griffith, *Chairman.*

XII. Lyceum Department.—H. E. Fulton, *Chairman.* Courses, R. C. Bernau; Carolina Smoker, D. J. Womble; Lyceum, Joe Person; Decoration, Miss Aline Hughes.

THE ASSOCIATIONS OF THE ALUMNI

THE GENERAL ASSOCIATION

R. D. W. Connor, *President.*
E. R. Rankin, *Secretary.*

Executive Committee

Walter Murphy, '92; Dr. R. H. Lewis, '70; W. N. Everett, '86; H. E. Rondthaler, '93; C. W. Tillett, Jr., '09.

The plan of organization adopted by the General Association of the Alumni on June 2, 1911, is as follows:—1. A deliberative body to be known as *The General Assembly of the Alumni of the University of North Carolina,* composed of *delegates* from the Local Associations, to meet yearly on such day of Commencement Week as has been previously arranged. 2. A directing board of fifteen to be known as *The Alumni Council,* elected by the General Assembly, the officers of which board shall be officers of the General Assembly. 3. Local Associations to be known by the names of their respective counties and towns. For a printed form of this constitution in detail application should be made to Mr. William S. Bernard, Chapel Hill, N. C.

Membership in the General Association of the Alumni includes all persons who have matriculated at the University of North Carolina in any department except the Summer School, and all who are or have been officers of the institution.

LOCAL ASSOCIATIONS

Alamance County Alumni Association, Burlington, N. C.
W. H. Carroll, *President.*
E. S. W. Dameron, *Secretary.*

Anson County Alumni Association, Wadesboro, N. C.
W. L. McKinnon, *President.*
W. C. Hardison, *Secretary.*

Beaufort County Alumni Association, Washington, N. C.
S. C. Bragaw, *President.*
C. F. Cowell, *Secretary.*

Bertie County Alumni Association, Windsor, N. C.
Francis D. Winston, *President.*
Francis Gillam, *Secretary.*

Buncombe County Alumni Association, Asheville, N. C.
H. B. Stevens, *President.*
C. G. Tennent, *Secretary.*

Cabarrus County Alumni Association, Concord, N. C.
L. T. Hartsell, *President.*
Cameron MacRae, *Secretary.*

Caldwell County Alumni Association, Lenoir, N. C.
Horace Sisk, *President.*
J. T. Pritchett, *Secretary.*

Catawba County Alumni Association, Hickory, N. C.
W. A. Self, *President.*
Wilson Warlick, *Secretary.*

Chapel Hill Alumni Association, Chapel Hill, N. C.
M. C. S. Noble, *President.*
Collier Cobb, *Secretary.*

Chatham County Alumni Association, Pittsboro, N. C.
W. D. Siler, *President.*
D. L. Bell, *Secretary.*

Cherokee County Alumni Association, Murphy, N. C.
J. H. Dillard, *President.*
T. J. Hill, *Secretary.*

Cherryville Alumni Association, Cherryville, N. C.
M. A. Stroup, *President.*
L. L. Summer, *Secretary.*

Chowan County Alumni Association, Edenton, N. C.
M. L. Wright, *President.*
J. R. Nixon, *Secretary.*

Craven County Alumni Association, New Bern, N. C.
P. O. Jarvis, *President.*
N. G. Gooding, *Secretary.*

CUMBERLAND COUNTY ALUMNI ASSOCIATION, Fayetteville, N. C.
G. M. Rose, *President.*
C. W. Rankin, *Secretary.*

DAVIDSON COUNTY ALUMNI ASSOCIATION, Lexington, N. C.
J. F. Spruill, *President.*
J. M. Daniel, Jr., *Secretary.*

DURHAM COUNTY ALUMNI ASSOCIATION, Durham, N. C.
Foy Roberson, *President.*
George Tandy, *Secretary.*

EDGECOMBE COUNTY ALUMNI ASSOCIATION, Tarboro, N. C.
R. G. Allsbrook, *President.*
J. W. Umstead, Jr., *Secretary.*

ELON COLLEGE ALUMNI ASSOCIATION, Elon College, N. C.
W. C. Wicker, *President.*
T. C. Amick, *Secretary.*

FORSYTH COUNTY ALUMNI ASSOCIATION, Winston-Salem, N. C.
Burton Craige, *President.*
Douglas Wright, *Secretary.*

GASTON COUNTY ALUMNI ASSOCIATION, Gastonia, N. C.
A. E. Woltz, *President.*
E. R. Rankin, *Secretary.*

GRANVILLE COUNTY ALUMNI ASSOCIATION, Oxford, N. C.
J. A. Morris, *President.*
F. M. Pinnix, *Secretary.*

GUILFORD COUNTY ALUMNI ASSOCIATION, Greensboro, N. C.
H. B. Gunter, *President.*
Benjamin Cone, *Secretary.*

HARNETT COUNTY ALUMNI ASSOCIATION, Lillington, N. C.
J. R. Baggett, *President.*
H. W. Prince, *Secretary.*

HENDERSON COUNTY ALUMNI ASSOCIATION, Hendersonville, N. C.
Michael Schenck, *President.*
Wiltshire Griffith, *Secretary.*

High Point Alumni Association, High Point, N. C.
T. J. Gold, *President.*
Carter Dalton, *Secretary.*

Hyde County Alumni Association, Swan Quarter, N. C.
C. B. Spencer, *President.*
W. F. Credle, *Secretary.*

Iredell County Alumni Association, Statesville, N. C.
Dorman Thompson, *President.*
S. W. Hoffman, *Secretary.*

Johnston County Alumni Association, Smithfield, N. C.
L. G. Stevens, *President.*
A. M. Coates, *Secretary.*

Lee County Alumni Association, Sanford, N. C.
J. D. Gunter, *President.*
D. L. St. Clair, *Secretary.*

Lenoir County Alumni Association, Kinston, N. C.
I. M. Hardy, *President.*
J. G. Dawson, *Secretary.*

Lincoln County Alumni Association, Lincolnton, N. C.
A. L. Quickel, *President.*
K. B. Nixon, *Secretary.*

Lumberton Alumni Association, Lumberton, N. C.
T. A. McNeill, *President.*
Dickson McLean, *Secretary.*

Macon County Alumni Association, Franklin, N. C.
S. H. Lyle, Jr., *President.*
R. D. Sisk, *Secretary.*

Martin County Alumni Association, Williamston, N. C.
Sylvester Hassell, *President.*
H. A. Biggs, *Secretary.*

Mecklenburg County Alumni Association, Charlotte, N. C.
W. A. Jenkins, *President.*
M. R. Dunnagan, *Secretary.*

MOORESVILLE ALUMNI ASSOCIATION, Mooresville, N. C.
E. W. Brawley, *President.*
R. O. Miller, *Secretary.*

NEW HANOVER COUNTY ALUMNI ASSOCIATION, Wilmington, N. C.
C. C. Covington, *President.*
H. M. Solomon, *Secretary.*

ORANGE COUNTY ALUMNI ASSOCIATION, Hillsboro, N. C.
John W. Graham, *President.*
J. C. Webb, *Secretary.*

PASQUOTANK COUNTY ALUMNI ASSOCIATION, Elizabeth City, N. C.
J. Q. A. Wood, *President.*
J. K. Wilson, *Secretary.*

PERQUIMANS COUNTY ALUMNI ASSOCIATION, Hertford, N. C.
Affiliates with Pasquotank County Association.

PITT COUNTY ALUMNI ASSOCIATION, Greenville, N. C.
F. G. James, *President.*
A. T. Moore, *Secretary.*

RANDOLPH COUNTY ALUMNI ASSOCIATION, Asheboro, N. C.
W. C. Hammer, *President.*
H. M. Robins, *Secretary.*

RICHMOND COUNTY ALUMNI ASSOCIATION, Rockingham, N. C.
T. C. Leak, *President.*
I. S. London, *Secretary.*

ROANOKE RAPIDS ALUMNI ASSOCIATION, Roanoke Rapids, N. C.
J. A. Moore, *President.*
L. N. Taylor, *Secretary.*

ROBESON COUNTY ALUMNI ASSOCIATION, Red Springs, N. C.
A. P. Spell, *President.*
D. M. McMillan, *Secretary.*

ROCKINGHAM COUNTY ALUMNI ASSOCIATION, Reidsville, N. C.
W. R. Dalton, *President.*
L. H. Hodges, *Secretary.*

Rocky Mount Alumni Association, Rocky Mount, N. C.
W. S. Wilkinson, Jr., *President.*
M. R. Robbins, *Secretary.*

Rowan County Alumni Association, Salisbury, N. C.
Walter Murphy, *President.*
C. L. Coggin, *Secretary.*

Rowland Alumni Association, Rowland, N. C.
J. McN. Smith, *President.*
J. F. Sinclair, *Secretary.*

Rutherford County Alumni Association, Rutherfordton, N. C.
R. E. Price, *President.*
D. F. Morrow, *Secretary.*

Sampson County Alumni Association, Clinton, N. C.
F. B. Johnson, *President.*
L. C. Kerr, *Secretary.*

Scotland County Alumni Association, Laurinburg, N. C.
J. D. Phillips, *President.*
W. S. Dunbar, *Secretary.*

Surry County Alumni Association, Mount Airy, N. C.
J. H. Carter, *President.*
A. D. Folger, *Secretary.*

Union County Alumni Association, Monroe, N. C.
W. B. Love, *President.*
Sarah Redwine, *Secretary.*

Wake County Alumni Association, Raleigh, N. C.
J. B. Cheshire, Jr., *President.*
H. M. London, *Secretary.*

Watauga County Alumni Association, Boone, N. C.
R. M. Brown, *President.*
I. G. Greer, *Secretary.*

WAYNE COUNTY ALUMNI ASSOCIATION, Goldsboro, N. C.
Thos. O'Berry, *President.*
W. F. Taylor, *Secretary,*

WENDELL ALUMNI ASSOCIATION, Wendell, N. C.
J. E. B. Davis, *President.*
W. H. Rhodes, *Secretary.*

WILKES COUNTY ALUMNI ASSOCIATION, Wilkesboro, N. C.
R. N. Hackett, *President.*
J. A. Rosseau, *Secretary.*

WILSON COUNTY ALUMNI ASSOCIATION, Wilson, N. C.
Graham Woodard, *President.*
Bryce Little, *Secretary.*

ATLANTA ALUMNI ASSOCIATION, Atlanta, Ga.
Michael Hoke, *President.*
J. W. Speas, *Secretary.*

BIRMINGHAM ALUMNI ASSOCIATION, Birmingham, Ala.
J. R. Harris, *President.*
F. G. Kelly, *Secretary.*

HARVARD-TECH. ALUMNI ASSOCIATION, Boston, Mass.
H. B. Black, *President.*
T. S. Kittrell, *Secretary.*

MONTGOMERY ALUMNI ASSOCIATION, Montgomery, Ala.
J. W. Battle, *President.*
H. B. Battle, *Secretary.*

NEW YORK ALUMNI ASSOCIATION, New York, N. Y.
Augustus VanWyck, *President.*
Francis A. Gudger, *Secretary.*

NORFOLK ALUMNI ASSOCIATION, Norfolk, Va.
C. S. Carr, *President.*
G. R. Berkeley, *Secretary.*

Richmond Alumni Association, Richmond, Va.

H. W. Jackson, *President.*
T. L. Patterson, *Secretary.*

Washington Alumni Association, Washington, D. C.

R. O. E. Davis, *President.*
E. W. Turlington, *Secretary.*

Western Pennsylvania Alumni Association, Pittsburgh, Pa.

C. B. Carter, *President.*
P. B. Bryan, *Secretary.*

PART THREE

THE COLLEGE OF LIBERAL ARTS

THE SCHOOL OF APPLIED SCIENCE

THE SCHOOL OF EDUCATION

THE SCHOOL OF COMMERCE

THE SCHOOL OF PUBLIC WELFARE

THE GRADUATE SCHOOL

THE SCHOOL OF LAW

THE SCHOOL OF MEDICINE

THE SCHOOL OF PHARMACY

THE SUMMER SCHOOL

THE BUREAU OF EXTENSION

THE COLLEGE OF LIBERAL ARTS

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*
GEORGE HOWE, Ph.D., *Dean.*

THE ADMINISTRATIVE BOARD

WALTER DALLAM TOY, M.A., *Professor of the Germanic Languages and Literatures.*
JAMES HOLLY HANFORD, Ph.D., *Professor of English.*
JOSEPH GREGOIRE DEROULHAC HAMILTON, Ph.D., *Kenan Professor of History and Government.*
HOWARD WASHINGTON ODUM, Ph.D., *Kenan Professor of Sociology.*
ARCHIBALD HENDERSON, Ph.D., D.C.L., *Professor of Pure Mathematics.*
WILLIAM FREDERICK PROUTY, Ph.D., *Professor of Stratigraphic Geology.*
EDGAR WALLACE KNIGHT, Ph.D., *Professor in Rural Education.*
LUCIUS POLK MCGEHEE, A.B., *Professor of Law.*

REQUIREMENTS FOR ADMISSION

See page 62.

EXPENSES

See page 67.

COURSES LEADING TO THE DEGREE OF BACHELOR OF ARTS

The course leading to the degree of Bachelor of Arts, is designed to provide a general, well-rounded, liberal education.

In order to be recommended for the degree a student must pass satisfactory examinations in thirty-six whole courses.

A whole course consists of five (six in the case of certain laboratory courses) class periods a week for one quarter. A half course consists of three class periods a week for one quarter. Two half courses are equivalent to one whole course. Each class period pre-supposes two hours of preparation or the equivalent in laboratory work.

In the first two years the student pursues a more or less definite curriculum in the following subjects:

English	three courses
Foreign Languages	three courses in each of 2 languages
History	two courses
Mathematics	two courses
Science	two courses

Beginning with the Junior year the work is on an elective basis, providing what is deemed a proper amount of concentration in study and, at the same time, a certain distribution of subjects.

Students who expect at some time to carry out investigation in any science or scientific profession, such as medicine or engineering, are earnestly recommended to enter upon their Senior year with a reading knowledge of German and French. Class work in these subjects should have included at least four courses in German and two in French.

Freshman Year

English 1
Mathematics 1-2
History 1-2

Select two: Greek 3-4; Latin 1-2; French 3-4; German 3-4; Spanish 3-4

By postponement of any one of these double courses until Sophomore year, a double course in Science (Botany 1, 2; Chemistry 1-2; Zoology 1, 2) may be taken in Freshman year.

Not more than three courses may be taken in any one term except by special permission of the Administrative Board.

Sophomore Year

Select one: English 3-4; Botany 1, 2; Chemistry 1-2; Physics 1, 2; Zoology 1, 2; Botany 1 and Zoology 1

Select two: Greek 5; Latin 3; French 5; German 21*; Spanish 5

Elective, 3 Courses

If a course in Science be taken in Freshman year, the Freshman course then postponed must be taken in place of the course in Science required of Sophomores.

* German 23 or 25 may be substituted.

Not more than three courses may be taken in ony one quarter except by special permission of the Committee on Courses.

Sophomore Electives: Botany 1, 2; Chemistry 1-2; Economics 1-2, 15; English 13-14-15, 16-17-18, 20, 37, 38, 51, 55, 59, 61-62, 65-66; Geology 1-2; German 3-4, 21, 22, 23, 25-26; Greek 5, 6, 11; History 3-4, 7-8, 9-10; Government 1-2; Latin 3, 5, 6, 10, 17, 18; Mathematics 3, 4, 9; Physics 1, 2; Psychology 1, 10-11-12; French 3-4, 5, 6; Spanish 3-4, 5, 6; Zoology 1, 2.

SYSTEM OF ELECTIVES

For the purpose of providing for the required concentration and distribution of electives in the Junior and Senior year, the various departments of the College are grouped under three general divisions, as follows:

Division I. *Language and Literature.*

Department of English.
Department of German.
Department of Greek.
Department of Latin.
Department of Romance Languages.

Division II. *Philosophy, Political and Social Sciences.*

Department of Economics.
Department of Rural Social Science.
Department of Education.
Department of History.
Department of Philosophy.
Department of Sociology.

Division III. *Mathematics, Natural Sciences.*

Department of Botany.
Department of Chemistry.
Department of Civil Engineering.
Department of Electrical Engineering.
Department of Geology.
Department of Mathematics.
Department of Physics.
Department of Psychology.
Department of Zoology.

Junior Year

Not later than May 15 of the Sophomore year each student shall hand in to the Registrar a list of electives for Junior year, specifying the department chosen for concentrated study and the particular courses in this and other departments. This list must have the written approval of the head of the chosen department before it will be accepted by the Registrar.

A Junior shall pursue elective studies amounting to nine courses, chosen according to the following regulations:

Each student is required to elect, in each quarter, either three whole courses or two whole courses and two half courses. A student will be permitted to take not more than three whole courses and one half course in any one quarter, and in no case will he be permitted to pursue more than four studies at one time.

One department must be selected for concentrated study from one of the three general divisions. Not less than three courses nor more than five courses may be elected in this department. The courses and the number of hours are to be decided upon only after consultation with the head of the department. It lies within the discretion of the head of the department whether the five courses shall be prescribed in his own department, or any part of them in allied departments. The Sophomore elective, completed the previous year, may be counted by the head of the department as one of the courses necessary for the minimum of three courses; but in that case an additional elective (chosen from any department) must be taken to complete the general requirement of nine courses.

The remaining courses (four to six) are free electives, subject only to the restriction that at least one course must be chosen from a department in each of the other general divisions. One of these two courses should be selected with a view to a continuance of the same subject in Senior year (see Senior requirements).

The remaining hours, if any, shall be free electives in any subject open to Juniors.

Senior Year

Not later than May 15 of the Junior year each student shall hand in to the Registrar a list of electives for Senior year, specifying the department for concentrated study and the particular courses in this and other departments. This list must have the written approval of the head of the chosen department before it will be accepted by the Registrar.

A Senior shall pursue elective studies amounting to nine courses, chosen according to the following regulations:

Each student is required to elect, in each quarter, either three whole courses or two whole courses and two half courses. A student will be permitted to take not more than three whole courses and one half course in any one quarter, and in no case will he be permitted to pursue more than four studies at one time.

A Senior shall continue in the department of concentrated study begun in Junior year. Not less than three courses nor more than five courses may be elected in this department. The courses and the number of hours are to be decided upon only after consultation with the head of the department. It lies within the discretion of the head of the department whether the five courses shall be prescribed in his own department, or any part of them in allied departments.

The remaining courses (four to six) are free electives, except that at least two courses must be chosen from one of the other general divisions and in a department in which a course was elected in Junior year.

DEGREES WITH DISTINCTION

Honor of two grades, *Honors* and *Highest Honors,* will be awarded at Commencement to those candidates for the degree of Bachelor of Arts who have done distinguished work in a group of related subjects. Every candidate for Honors must register before October 15 of his Junior year with the Committee on Degrees with Distinction. He shall file a statement, properly approved, of the courses which he proposes to elect, and these electives shall be such as to show a unified plan and to provide for a field of concentrated study involving, as a rule, two departments within the division in which his major work lies. In connection with the regular courses, candidates are expected to do, in term-time and in vacations, a considerable amount of additional reading, or such other supplementary work as may be prescribed by the department. In every case such additional work must be closely related to the general plan of study adopted by the candidate. Students will have the guidance and assistance of special instructors, and small groups will be formed for the discussion of the reading and of the courses. This tutorial assistance will be entirely independent of the conduct of the courses, the object being to stimulate interest in reading not required as a part of the regular class-work for its culture value rather than for direct preparation for examinations.

Besides the careful organization of the plan of study and the conferences, a thesis and a final oral examination are required. The thesis need not necessarily be a contribution to knowledge,

but is designed to show the ability of the student to use his knowledge with intelligence and to interpret facts and his personal reaction upon the material studied in the courses or derived from the supplementary reading. The examination will test the candidate's knowledge of the whole field of concentrated study, and will also test his proficiency in a special topic within the general field. The aim of the entire plan of study is thus to secure, as far as possible, a conception of a field of learning as a unity; to prevent, through the various measures named above, undue emphasis on the separate courses as independent units; and to lay the foundation for right method through concentrated study in some part of the field.

The administration of the Honors courses is vested in a Committee on Degrees with Distinction, which consists of three representatives from each of the three divisional groups into which the Faculty of the College of Liberal Arts is divided. At present Honors are offered in the Division of Language and Literature on the following terms:

Requirements for Honors in Language and Literature

1. A reading knowledge of one language besides English.

2. Six courses chosen from those open to Juniors, Seniors, and Graduates. Of these, four are to be in one department of Language and literature, the other two may be (*a*) in another literature, or (*b*) in history, provided the courses are closely correlated with work in the major subject. But other combinations may be made, provided they show a definite plan.

3. In every case the major and minor groups constituting the six courses must show a definite relationship: *e. g.,* the study of a period, such as Romanticism in France, Germany, and England, this study including history as well as literature; or the study of a type, such as tragedy, in at least two literatures; or the study of the influence of some writer, for example, Plato, Vergil, Dante, Shakespeare, Goethe, on some literature other than his own. Other means of securing correlation may also be approved.

4. The principle of correlation is further carried out through (*a*) the provision for lecture courses in comparative literature; (*b*) the fortnightly conferences at which books and reading in connection with the entire scheme of study are discussed; (*c*) the provision for an extensive course of reading, to be done in residence or during vacations, such reading to be ordinarily independent of prescriptions for courses and designed to give a thorough grounding in the field of learning elected for the major subject; (*d*) the

special seminars, at least one each year, through which provision is made for the intensive study of some subject during a limited period under the guidance of a scholar from the faculty of some other university.

5. Acquaintance with the following subjects is to be gained within or outside courses regularly elected: (*a*) the history of the literature chosen for the major subject, including the principal masterpieces illustrating its development; (*b*) some acquaintance with the political and social history of the nation whose literature is so elected; (*c*) some acquaintance with the history and philology of the language. The extent of the candidate's knowledge of these topics, as well as of the field or topic chosen for intensive study, will be tested by an examination to be held near the end of the Senior year.

6. An essay of some length is to be written upon some topic belonging to the field chosen for intensive study. This essay must show (*a*) investigation and mastery of facts; (*b*) power of interpretation; (*c*) excellence in composition and style.

7. In estimating the value of the candidate's work due regard will be paid to the grades attained by him in his regular college courses, but the matter of grades is distinctly subsidiary to other considerations, such as the extent and quality of his reading, the maturity of his thought, and his ability to use his knowledge effectively.

THE SCHOOL OF APPLIED SCIENCE

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*
ANDREW HENRY PATTERSON, A.M., *Dean.*

THE ADMINISTRATIVE BOARD

ARCHIBALD HENDERSON, Ph.D., D.C.L., *Professor of Pure Mathematics.*

FRANCIS PRESTON VENABLE, Ph.D., D.Sc., LL.D., *Kenan Professor of Chemistry.*

FREDERICK WILLIAM PROUTY, Ph.D., *Professor of Stratigraphic Geology.*

PARKER HAYWARD DAGGETT, S.B., *Professor of Electrical Engineering.*

THOMAS FELIX HICKERSON, A.M., S.B., *Professor of Civil Engineering.*

OLIVER TOWLES, Ph.D., *Professor of French.*

ISAAC HALL MANNING, M.D., *Professor of Physiology.*

CLARENCE ADDISON HIBBARD, M.A., *Assistant Professor of English.*

REQUIREMENTS FOR ADMISSION

See page 63.

EXPENSES

See page 67.

COURSES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

In order to be recommended for the degree of Bachelor of Science, the student must have passed satisfactory examinations in all the studies required in one of the following courses outlined in this department, I, II, III, IV, and V. Each course combines instruction in certain sciences and their application to the arts, with certain other general studies deemed essential to a liberal education. These courses are designed to furnish the fundamental instruction and to prepare students to pursue the technical pro-

fessions to which they lead. The courses leading to the degree are five in number.

I. Bachelor of Science in Chemistry.
II. Bachelor of Science in Electrical Engineering.
III. Bachelor of Science in Civil and Highway Engineering.
IV. Bachelor of Science in Medicine.
V. Bachelor of Science in Geology.

I. BACHELOR OF SCIENCE IN CHEMISTRY

FRESHMAN YEAR.

Fall Quarter:
Chemistry 1E, General Descriptive Chemistry.
Mathematics 2E, Plane Trigonometry.
German 3, Composition and Literature.
Drawing 1, Mechanical Drawing. (Half Course.)

Winter Quarter:
Chemistry 2E, General Descriptive Chemistry.
Mathematics 1E, Algebra.
German 4, Composition and Literature.
Drawing 2, Mechanical Drawing. (Half Course.)

Spring Quarter:
Chemistry 31, Qualitative Analysis.
Mathematics 3E, Analytical Geometry.
English 10, Composition.

SOPHOMORE YEAR

Fall Quarter:
Chemistry 41, Quantitative Analysis.
Mathematics 4E, Calculus.
English 11, Technical Composition.

Winter Quarter:
Chemistry 42, Quantitative Analysis.
English 12, English and American Literature.
Physics 1, Mechanics, Sound, and Heat.

Spring Quarter.
Chemistry 61, Organic Chemistry.
Chemistry 8, Chemical Equations.
Chemistry 47, Technical Analysis.
Physics 2, Light, Electricity and Magnetism.

JUNIOR YEAR

Fall Quarter:

Chemistry 62, Organic Chemistry.
Chemistry 45, Quantitative Analysis.
E. E. 1, Essentials of Electrical Engineering.
Economics 1, General Course.

Winter Quarter:

Chemistry 81, Physical Chemistry.
Chemistry 46, Quantitative Analysis.
E. E. 2, Essentials of Electrical Engineering.
Economics 2, General Course.

Spring Quarter:

Chemistry 82, Physical Chemistry.
Chemistry 63, Organic Chemistry.
E. E. 3, Essentials of Electrical Engineering.
Economics, Elective.

SENIOR YEAR

Fall Quarter:

Chemistry 21, Research in Chemistry.
Chemistry 83, Physical Chemistry.
Chemistry 11, Industrial Chemistry.
Geology 3, Mineralogy.

Winter Quarter:

Chemistry 22, Research in Chemistry.
Chemistry 64, Organic Chemistry.
Chemistry 12, Industrial Chemistry.
Geology 4, Mineralogy.

Spring Quarter:

Chemistry 23, Research in Chemistry.
Chemistry 84, Physical Chemistry.
Chemistry 13, Chemistry of Foods.
Chemistry 18, History of Chemistry.

II. BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

FRESHMAN YEAR

Fall Quarter:

E. E. 10, Elements of Electrical Engineering. (Half Course.)
Mathematics 2E, Plane Trigonometry.
Chemistry 1E, General Descriptive Chemistry.
Drawing 1, Mechanical Drawing. (Half Course.)

Winter Quarter:

E. E. 11, Elements of Electrical Engineering. (Half Course.)
Mathematics 1E, Algebra.
Chemistry 2E, General Descriptive Chemistry.
Drawing 2, Mechanical Drawing. (Half Course.)

Spring Quarter:

E. E. 12, Elements of Electrical Engineering. (Half Course.)
Mathematics 3E, Analytical Geometry.
English 10, Composition.
Drawing 5, Machine Drawing. (Half Course.)

SOPHOMORE YEAR

Fall Quarter:

E. E. 20, Principles of Electrical Engineering. (Half Course.)
Mathematics 4E, Calculus.
English 11, Technical Composition.
Drawing 6, Machine Drawing. (Half Course.)

Winter Quarter:

E. E. 21, Principles of Electrical Engineering. (Half Course.)
E. E. 24, Engineering Problems. (Half Course.)
Physics 1, Mechanics, Sound and Heat.
English 12, English and American Literature.

Spring Quarter:

E. E. 22, Principles of Electrical Engineering. (Half Course.)
E. E. 25, Engineering Problems. (Half Course.)
Physics 2, Light, Electricity and Magnetism.
C. E. 1, Surveying.

JUNIOR YEAR

Fall Quarter:

E. E. 30, Direct and Alternating Current Circuits and Machines.
E. E. 33, General Electrical Engineering. (Half Course.)
M. E. 1, Heat Engines.
Economics 1, General Course.

Winter Quarter.

E. E. 31, Direct and Alternating Current Circuits and Machines.
E. E. 34, General Electrical Engineering. (Half Course.)
M. E. 2, Engineering Thermodynamics.
Economics 2, General Course.

Spring Quarter:

E. E. 32, Direct and Alternating Current Circuits and Machines.
E. E. 35, General Electrical Engineering. (Half Course.)
M. E. 3, Electric Power Plants.
Economics, Elective.

SENIOR YEAR

Fall Quarter:

E. E. 40, Special Studies in Electrical Machinery.
E. E. 43, Electrical Measurements. (Half Course.)
C. E. 19, Hydraulics.
Non-Technical Elective.

Winter Quarter:

E. E. 41, Special Studies in Electrical Engineering.
E. E. 44, Electrical Measurements. (Half Course.)
C. E. 16, Materials of Construction.
Non-Technical Elective.

Spring Quarter:

E. E. 42, Special Studies in Electrical Engineering.
E. E. 45, Electrical Measurements. (Half Course.)
C. E. 17, Mechanics of Materials.
Non-Technical Elective.

III. BACHELOR OF SCIENCE IN CIVIL AND HIGHWAY ENGINEERING

FRESHMAN YEAR

Fall Quarter:

English 10, Composition.
Mathematics 1E, Algebra.
Chemistry 1E, General Descriptive Chemistry.

Winter Quarter:

Mathematics 2E, Plane Trigonometry.
Drawing 1, Freehand and Mechanical. (Half Course.)
French 3, German 3, Spanish 3 (select one).
Chemistry 2E, General Descriptive Chemistry.

Spring Quarter:

Drawing 2, Mechanical. (Half Course.)
French 4, German 4, Spanish 4 (select one as above).
Geology 1, General Course.
Mathematics 3E, Analytical Geometry.

SOPHOMORE YEAR

Fall Quarter:

C. E. 1, Surveying and Plotting.
Mathematics 4E, Calculus.
Physics 1, Mechanics, Sound and Heat.

Winter Quarter:

C. E. 3, Mechanics and Mechanism.
Mathematics 8, Calculus.
Geology 2, General Course.
Drawing 3, Topographical. (Half Course.)

Spring Quarter:

C. E. 5, Plane Table and Topographical Surveying. (Half Course.)
Mathematics 12, Analytic Mechanics.
Drawing 4, Topographical. (Half Course.)
Physics 2, Light, Electricity and Magnetism.

JUNIOR YEAR

Fall Quarter:

C. E. 9, Higher Surveying and Railway Problems.
C. E. 11, Highway Engineering.
English 11, Technical Composition.
Non-Technical Elective.

Winter Quarter:

C. E. 16, Materials of Construction.
Mathematics 5, Descriptive Geometry. (Half Course.)
English 12, English and American Literature.
Non-Technical Elective.

Spring Quarter:

C. E. 10, Railroad Engineering. } Select one.
C. E. 12, Highway Engineering. }
C. E. 17, Mechanics of Materials.
Mathematics 6, Descriptive Geometry. (Half Course.)
Non-Technical Elective.

SENIOR YEAR

Fall Quarter:

C. E. 18, Engineering Geology. (Half Course.)
C. E. 19, Hydraulics.
C. E. 23, Structures.
E. E. 1, Essentials of Electrical Engineering.

Winter Quarter:

C. E. 20, Water Power Development.
C. E. 24, Structures.
C. E. 26, Bridge Design.
E. E. 2, Essentials of Electrical Engineering.

Spring Quarter:

C. E. 21, Sanitary Engineering.
C. E. 25, Reinforced Concrete Structures.
C. E. 27, Bridge Design.
E. E. 3, Essentials of Electrical Engineering.

IV. BACHELOR OF SCIENCE IN MEDICINE

FRESHMAN YEAR

Fall Quarter:

Chemistry 1.
Mathematics 1.
French 1.

Winter Quarter:

Chemistry 2.
Mathematics 2.
French 2.
English 1.

Spring Quarter:

Botany 1.
English 3.
French 3.

SOPHOMORE YEAR

Fall Quarter:

Physics 1.
Psychology 1.
French 4.

Winter Quarter:

Chemistry 44.
English 4.
Zoology 1.
German 1.

Spring Quarter:

Chemistry 61.
German 2.
Physics 2.

JUNIOR YEAR

Fall Quarter:

Chemistry 62.
German 3.
Zoology 3.

Winter Quarter:

German 4.
Elective, 2 courses.

Spring Quarter:

Elective, 3 courses.

V. BACHELOR OF SCIENCE IN GEOLOGY

FRESHMAN YEAR

Fall Quarter:

Geology 1, Introduction to Geology.
Mathematics 1, Algebra.
Chemistry 1, General Course.
Drawing 1, Freehand and Mechanical.

Winter Quarter:

Geology 2, Historical Geology.
Mathematics 2, Plane Trigonometry.
Chemistry 2, General Course.
Drawing 2, Freehand and Mechanical.

Spring Quarter:

English 1, Composition.
Mathematics 3, Analytical Geometry.
Chemistry 31, Qualitative Analysis.
German 3, or French 3, or Spanish 3.

SOPHOMORE YEAR

Fall Quarter:

Geology 3, Mineralogy.
C. E. 1, Surveying and Plotting.
Chemistry 41, Quantitative Analysis.
German 4, or French 4, or Spanish 4.

Winter Quarter:

Geology 4, Mineralogy.
Physics 1, General Course.
Chemistry 42, Quantitative Analysis.
Drawing 3, Topographical Drawing.

Spring Quarter:

C. E. 5, Plane Table.
Physics 2, General Course.
Geology 7, Principles of Geology.
Geology 13, Petrology.

JUNIOR YEAR

Fall Quarter:

Geology 8, Field and Structural Geology.
Geology 11, Non-Metallic Minerals.
English 11, Technical Composition.
Economics 1, Principles of Economics.

Winter Quarter:

Geology 9, Stratigraphy.
Geology 12, Ore Deposits.
Geology 23, Soil Geology.
English 12, English and American Literature.

Spring Quarter:

Geology 10, Oil Geology.
Geology 24, Soil Geology.
Geology 42, Advanced Work in Mineralogy.

SENIOR YEAR

Fall Quarter:

C. E. 18, Engineering Geology.
Geology 51, Advanced Field Geology.
Chemistry 11, Industrial Chemistry.
Chemistry 45, Fuel and Gas Analysis.

Winter Quarter:

Geology 21, Industrial Geography.
Geology 43, Mineral and Ore Deposits.
Chemistry 12, Industrial Chemistry.
Chemistry 46, Technical Quantitative Analysis.

Spring Quarter:

Geology 22, Commercial Geography.
Geology 25, Physiography.
Geology 52, Advanced Field Geology.

PREMEDICAL COURSE

FRESHMAN YEAR

Fall Quarter:

Chemistry 1.
*French 1 or German 1.
History 1.
Mathematics 1.

* If the student enters with 2 units of French or German he should select French 3 or German 3.

Winter Quarter:

Chemistry 2.
French 2 or German 2.
History 2.
English 1.

Spring Quarter:

Chemistry 31.
English 3.
Botany 1.

SOPHOMORE YEAR

Fall Quarter:

Psychology 1.
Physics 1.
French 3 or German 3.
Chemistry 61.

Winter Quarter:

Chemistry 44.
Zoology 1.
English 4.
French 4 or German 4.

Spring Quarter:

Physics 2.
Zoology 2.
Physics 3.

THE SCHOOL OF EDUCATION

FACULTY

Harry Woodburn Chase, Ph.D., LL.D., *President.*

Marcus Cicero Stephens Noble, *Dean.*

Marcus Cicero Stephens Noble, *Professor of Pedagogy.*

Nathan Wilson Walker, A.B., *Professor of Secondary Education.*

Louis Round Wilson, Ph.D., *Professor of Library Administration.*

Lester Alonzo Williams, Pd.D., *Professor of School Administration.*

Edgar Wallace Knight, Ph.D., *Professor of Rural Education.*

John Frederick Dashiell, Ph.D., *Professor of Psychology.*

REQUIREMENTS FOR ADMISSION

See page 63.

EXPENSES

See page 67.

PURPOSES

The courses in education prepare for teaching and the executive work of principals and superintendents of schools. A number of courses are also offered which deal with popular education from the viewpoint of the citizen, whatever his occupation or profession. All courses in education carry college credit for the several degrees and at the same time enable those who successfully complete such courses to secure State certificates to teach or to administer schools, without further examination by the State.

Under the public law of the State all public school teachers, principals, superintendents and supervisors must hold State certificates appropriate to their work. Full information concerning the requirements for the various certificates may be obtained from the Dean; and prospective teachers, principals, superintendents and supervisors should secure this information before registering for courses in the School of Education.

COURSES LEADING TO THE DEGREE OF BACHELOR OF ARTS IN EDUCATION

In order to be recommended for the Degree of Bachelor of Arts in Education, the student must have completed satisfactorily the four years course outlined below:

Freshman Year

English 1
History 1-2
Mathematics 1
Education 2

Select two: Greek 3-4; Latin 1-2; German 3-4; French 3-4; Spanish 3-4

By postponement of any of these courses except English and Education until Sophomore year one course in Science (Botany 1, 2; Chemistry 1-2 or Zoology 1, 2) may be taken in the Freshman year. Not more than three courses may be taken in any one term except by special permission.

Sophomore Year

English 3-4

Select one: Botany 1, 2; Chemistry 1-2; Physics 1, 2; Zoology 1, 2; Botany 1 and Zoology 1

Select two: Greek 5; Latin 3; German 21; French 5; Spanish 5

Mathematics 2

Select two: Education 3; Education 4; Psychology 1

If a course in Science be taken in the Freshman year, the Freshman course then postponed must be taken in place of the course in Science required of Sophomores. Not more than three courses may be taken in any one term except by special permission.

Junior Year

For Junior year students are required to select three courses open to Juniors in the School of Education and six courses open to Juniors in the College of Liberal Arts, according to the regulations governing such selection.

Senior Year

For Senior year students are required to select three courses open to Seniors in the School of Education and six courses open to Seniors in the College of Liberal Arts, according to the regulations governing such selection.

Regulations

Candidates for the Degree of Bachelor of Arts in Education must complete satisfactorily 36 full courses.

The proportion of these courses to be taken each year in the College of Liberal Arts and the proportion to be taken in the School of Education is as follows:

	College of Liberal Arts	*School of Education*
Freshman year	Eight courses	One course
Sophomore year	Seven courses	Two courses
Junior year	Six courses	Three courses
Senior year	Six courses	Three courses

Courses in the School of Education are classified into three groups; one group in the Principles of Education, one group in the Methods of Education, one group in the History of Education. The courses included within each group are given below:

Principles: Education 2, 4, 12, 20, 26, 30, 31, 32, 51, 61 and 63.
Methods: Education 3, 5, 6, 52, 62 and 64.
History: Education 22, 23, 24, 25, 26 and 29.

In order to insure a proper distribution of work and concentration of effort candidates for the Degree of Bachelor of Arts in Education are required to select not less than two courses from the group in Principles; not less than two from the group in Methods; and at least one from the group in History of Education, the remaining four courses to be selected after consultation with the Dean. The prescribed and elective courses in the Freshman and Sophomore years are to be counted in meeting this requirement.

In order to meet the requirement of the State Board of Examiners and Institute Conductors all students intending to teach in the high schools of the State, whether candidates for A.B. in Education or not, are required to take Education 51, Education 52, and two more full courses in Education. All candidates for A.B. in Education are, therefore, required to select Education 51 and Education 52 as two of the required six courses in Junior and Senior years.

All courses must be approved by the Dean before they are accepted by the Registrar.

COURSES OF INSTRUCTION

COURSES FOR UNDERGRADUATES

Principles of Education

2. PRINCIPLES OF EDUCATION.

PROFESSOR NOBLE. Credit, 1 course.
Five hours a week.
Fall or Winter Quarter.

A course for prospective teachers in elementary and grammar grades and for prospective principals and superintendents. A study of the rise and development of public schools in our democratic society and of the principles underlying successful teaching. Required of Freshmen in the School of Education and open to Sophomores or Juniors in the College of Liberal Arts who purpose to teach.

4. THEORY AND PRACTICE OF EDUCATION.

PROFESSOR NOBLE. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Fall Quarter.

A study of the theory and practice of modern education from the viewpoint of both the teacher and the citizen; the selection of the material of instruction; the development and arrangement of the curriculum for the grammar and high school. Lectures, textbooks, and assigned readings.

12. EXPERIMENTAL EDUCATIONAL PSYCHOLOGY.

PROFESSOR DASHIELL. Credit, ½ or 1 course.
Sophomore, Junior and Senior elective. *Three or five hours a week.*
Spring Quarter.
Prerequisite, Psychology 1 or equivalent. *Laboratory fee*, $2.00.

An introduction to the methods of experimental pedagogy. A few central problems of education will be isolated for careful scientific treatment. Laboratory work.

51. PRINCIPLES OF SECONDARY EDUCATION.

PROFESSOR WALKER. Credit, 1 course.
Required for Juniors in School of Education. *Five hours a week.*
Fall or Winter Quarter.
Junior and Senior elective.

A study of the American high school, its evolution, organization, administration, function, and problems. Special emphasis will be

laid on the State high school in North Carolina. This course is designed especially to meet the needs of those students who are looking toward principalships in small high schools. Text-books, lectures, assigned readings.

Students who intend to make application for the High School Principal's certificate are required to complete satisfactorily Education 51, 52, and at least two other courses in Education in order to be exempt from the professional examination.

61. PRINCIPLES OF PUBLIC SCHOOL ADMINISTRATION.

Professor Williams. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Winter Quarter.

This course will deal with the general principles underlying public school administration in nation, state, county, and local district. Studies will be made of the various surveys of city, county and state systems of public schools. It will consider also in some detail problems of high school administration.

Methods of Education

3. METHODS IN EDUCATION.

Professor Noble. Credit, 1 course.
Five hours a week.
Winter or Spring Quarter.

Based on Education 2. A study of the methods employed in elementary and secondary schools. Required of Sophomores in the School of Education, and open to Juniors and Seniors in the College of Liberal Arts who purpose teaching.

5. LIBRARY ADMINISTRATION: THE USE OF BOOKS.

Professor L. R. Wilson. Credit, ½ course.
Junior and Senior elective. *Three hours a week.*
Winter Quarter.

Instruction is given as to the kind of information specific reference books, dictionaries and encyclopedias contain. Special emphasis is laid on methods of finding material for use in the preparation of themes, essays, debates, orations and of assisting others in finding material in school or public libraries for school use. Practice at the reference desk of the University Library and the preparation of an extensive list of readings on some subject to be assigned will be required. Lectures, assigned readings, text-books.

52. GENERAL METHODS IN SECONDARY EDUCATION.

PROFESSOR WALKER. Credit, 1 course.
Required of Juniors in the School of Education. *Five hours a week.*
Junior and Senior elective. *Spring Quarter.*

The course deals with a general survey of the nature of the secondary school pupil and of the nature of the subject matter taught in secondary schools with a discussion of the laws underlying the presentation of the subject matter in such a way as to aid in the development of secondary school students along the lines of nature. The matters concerned with the conduct of the recitation, management of the class, tests, examinations and scales are also taken up and discussed in considerable detail.

62. EDUCATIONAL MEASUREMENTS. (ELEMENTARY COURSE.)

PROFESSOR WILLIAMS. Credit, 1 course.
Senior elective. *Five hours a week.*
Spring Quarter.

The material of the course is the various tests and scales used in the measurement of classroom products as well as the intelligence tests used in conjunction with the subject matter tests in the organization, management and grading of children in school. The methods of giving, scoring, tabulating and interpreting these tests make up the material for class discussion, report and experimentation.

64. SCHOOL AND CLASS MANAGEMENT.

PROFESSOR WILLIAMS. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Fall Quarter.

The course deals with a detailed consideration of the particular problems incident to the successful management of a single school or of a single classroom in a school. It is intended to be of most service to those intending to become principals or classroom teachers rather than for those who look more immediately to the field of superintendencies; *i. e.* it is a course for the apprentice in school management.

History of Education

22. THE GENERAL HISTORY OF EDUCATION.

PROFESSOR NOBLE. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Fall Quarter.

A brief general history of education; the development of educa-

tional theories in the past; the effect of the pedagogical doctrines of the great educators of the past upon modern educational systems. Lectures, text-books, parallel readings, theses.

23. CURRENT EDUCATION.

Professor Noble. Credit, ½ course.
Junior and Senior elective. *Three hours a week.*
Winter or Spring Quarter.

A study of present educational tendencies and practice as seen in typical country and city school systems and in the development and supervision of the American public school of today. Lectures, text-books, research and theses.

24. CURRENT EDUCATION.

Professor Noble. Credit, ½ course.
Junior and Senior elective. *Three hours a week.*
Spring Quarter.

Continuation of Education 23 above.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

Principles of Education

20. EDUCATIONAL PSYCHOLOGY.

Professor ————. Credit, 1 course.
Prerequisite, Psychology 1 *Five hours a week.*
or equivalent. *Fall Quarter.*

To consider critically different topics, such as original nature of man, heredity versus environment, kinds of learning and factors influencing learning, individual differences, mental hygiene, mental measurement. Texts and lectures.

26. GENETIC PSYCHOLOGY.

Professor ————. Credit, 1 course.
Prerequisite, Psychology 1 *Five hours a week.*
or equivalent. *Winter Quarter.*

Development of mind in the child. Original motor and mental tendencies and their organization through development and training. Special attention to the development of instincts into conscious interests, and to the maturing of intellectual powers. Methods of measuring intelligence will be studied. Texts, lectures, and experiments or observations.

30. RURAL EDUCATION.

PROFESSOR KNIGHT. Credit, 1 course.
Five hours a week.
Fall or Winter Quarter.

A course intended for those students who wish an introduction to the general field of rural education. Among the topics treated are: Present conditions in rural education in the United States, with especial emphasis on conditions in the South; recent development in and the present status of rural, educational organization and administration; the increasing demand for professional direction and supervision; the rural school curriculum; agencies for training teachers for the rural school; rural educational extension work; the wider community use of the rural school. Text-book, lectures, readings and reports.

31. RURAL SCHOOL ORGANIZATION AND ADMINISTRATION.

PROFESSOR KNIGHT. Credit, 1 course.
Five hours a week.
Fall or Winter Quarter.

A course planned to meet the needs of students preparing to become rural school teachers, principals, supervisors, and superintendents. It gives consideration to the organization, administration, and supervision of rural school education in the United States, with especial emphasis on the present condition in the South. The county as the unit of administration and support, federal aid and a national program for rural educational work, the application of the principles, agencies, and methods of supervision to the rural school will be studied. Text-books, lectures, special investigations and reports.

32. THE RURAL HIGH SCHOOL.

PROFESSOR KNIGHT. Credit, 1 course.
Five hours a week.
Spring Quarter.

A study of the outstanding questions in the organization, administration, and supervision of the rural high school in the South. Types of rural high schools, the function of local and of State control, the course of study of the rural high school, federal aid and the influence of the Smith-Hughes Act on rural high school education in the South, and teacher-training courses in the high school, are some of the subjects that will be considered. Lectures, readings, reports.

63. ADMINISTRATIVE PROBLEMS.

Professor Williams. Credit, 1 course.
Two hours a week.
Fall, Winter and Spring Quarters.

In this course the more specific problems having to do with public school administration will be taken up and studied in considerable detail. The amount of time devoted to any one problem will depend largely upon the importance of the bearing of that problem on our local situation. Since the problems to be considered will vary from year to year, the course may be taken more than once by the same student.

(The class will meet once each week for two hours throughout the year.)

Methods of Education

6. THE RURAL SCHOOL CURRICULUM.

Professor Knight. Credit, 1 course.
Five hours a week.
Spring Quarter.

A brief study of the accepted principles of curriculum-making and of their applicability to the rural school. Attention is given to the basis of selection and organization of the course of study for the rural school; text-books; the relative claims of the traditional subjects and of the modern and special subjects; the administration of the course of study in the small and in the consolidated school; daily programs and schedules. Lectures, readings, special studies and reports.

History of Education

25. HISTORY OF SECONDARY EDUCATION.

Professor Williams. Credit, 1 course.
Five hours a week.
Winter Quarter.

The course will attempt to trace great movements in history from the earliest times down to the present in an effort to understand what society and the State have done to help adolescents solve the problems incident to their period of development. The facts of history will be utilized to show how any given civilization or people have been at work on the problem of the education of youth of secondary school age.

26. PUBLIC SCHOOL EDUCATION IN THE SOUTH.

PROFESSOR KNIGHT. Credit, 1 course.
Five hours a week.
Winter or Spring Quarter.

This course gives a historical survey of public school education in Southern States with especial attention to its development in organization, administration, and supervision since 1876. Present-day questions in rural education are studied in the light of their historical development, and attention is given to the educational reorganizations needed for the proper solution of the new rural life problems. Text-books, lectures, investigations and reports.

28-29. AMERICAN PUBLIC EDUCATION.

PROFESSOR NOBLE. Credit, 1 course.
Three hours a week.
Fall and Winter Quarters.

A study of the growth of popular education in the United States, of the creation of public sentiment in favor of the education of all the people at public expense and of the gradual realization by the state of the obligation to educate its citizens and how the obligation has been met.

COURSES PRIMARILY FOR GRADUATES

102. AMERICAN EDUCATIONAL IDEALS.

PROFESSOR NOBLE. Credit, 1 course.
Three hours a week.
Winter and Spring Quarters.

A comparative study of the educational ideals of church, state, and nation in the United States, and of the gradual extension of the field of educational activity by the state as well as by private and denominational institutions.

103. THE JUNIOR HIGH SCHOOL.

PROFESSOR WILLIAMS. Credit, ½ course.
Prerequisite, Education 51 or equivalent. *Three hours a week.*
Spring Quarter.

A study in detail will be made of the Junior High School, its development, purposes, organization and curriculum.

104-105. EDUCATIONAL MEASUREMENTS. (ADVANCED COURSE.)

PROFESSOR WILLIAMS. Credit, 2 courses.
Prerequisite, Education 62 or equivalent. *Five hours a week.*
Fall and Winter Quarters.

The material used in this course is much the same as that used in Education 62, but the method of treatment is graduate rather

than undergraduate. Students may register for this course only after consultation with the instructor.

106. PUBLIC EDUCATION IN THE SOUTH.

Professor Knight. Credit, 1 course.
One hour a week.
Fall, Winter and Spring Quarters.

This is a research course in public school education in the Southern States. An exhaustive study will be made of special topics through investigations, reports and conferences.

107. THE PSYCHOLOGY OF TRAINING.

Professor Dashiell. Credit, ½ course.
Three hours a week.
Spring Quarter.

An analysis of human training; its nature, means and possibilities. A reading survey will be made of the outstanding experimental work on these lines. The aim will be to get an accurate and scientific notion of the subject, with possibilities of application to education.

111-112-113. EXPERIMENTAL EDUCATIONAL PSYCHOLOGY.

Professor Dashiell and ——————— Credit, ½ to 3 courses.
Fall, Winter and Spring Quarters.

Opportunity will be offered for the experimental investigation of special problems along the line of the individual student's interests. Where necessary, adjustment of the work to the needs of graduate students lacking laboratory training in this field can be made.

126. FOUNDATIONS OF EDUCATION IN THE SOUTH.

Professor Knight. Credit, 1 course.
Five hours a week.
Fall Quarter.

In this course the various educational agencies will be studied by texts, lectures, special investigations and research, reports and discussions, for the purpose of presenting (a) the development of present educational practices, tasks and tendencies and (b) the influence of the dominating economic, political and social ideals in the evolution of the free common school system, high schools, and institutions of higher education.

131. RURAL SCHOOL ORGANIZATION, ADMINISTRATION AND SUPERVISION.

Professor Knight. Credit, 1 course.
Five hours a week.
Winter Quarter.

This is an administrative and professional course and is intended for those persons who are preparing for county superintendencies and rural school supervisory positions. It is both a descriptive and research course in rural life conditions in the South and especially in North Carolina, and consists of lectures, discussions, readings, and individual projects in field work and investigation.

140. SEMINAR IN EDUCATION.

This is a course of strictly graduate grade in which there will be taken up such work as is necessary for each student in connection with the writing of his degree thesis. It is intended for those students whose graduate major is in Education, but students whose thesis topic is closely related to Education are invited to attend and to take part in the discussions. The class will meet for two hours each week through the year. The Professors in the School of Education.

THE SCHOOL OF COMMERCE

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*

DUDLEY DEWITT CARROLL, M.A., *Dean.*

THE ADMINISTRATIVE BOARD

WALTER JEFFRIES MATHERLY, M.A., *Associate Professor of Business Administration.*

ERLE EWART PEACOCK, M.B.A., *Associate Professor of Accounting.*

LOUIS ROUND WILSON, Ph.D., *Kenan Professor of Library Administration.*

WILLIAM WHATLEY PIERSON, JR., Ph.D., *Professor of History and Government.*

STURGIS ELLENO LEAVITT, Ph.D., *Associate Professor of Spanish.*

JOHN BROOKS WOOSLEY, M.A., *Assistant Professor of Economics.*

CHARLES THOMAS WOOLLEN, *Business Manager of the University.*

GENERAL AIM AND PURPOSE

The School of Commerce is an expression of the University's desire to serve the business life of the State. It was established as a result of the action of the State Legislature in the session of 1919, when the recommendation of the President and Trustees of the University was approved and an appropriation made for the purpose.

The course of study is based on the recognition that business is becoming a profession. The forces and influences operating in this field are so far-reaching and baffling in their complexity that to master them requires both broad and intensive training. Definite preparation to function successfully in the organization and administration of business enterprise is the purpose of the School, which is co-ordinate in standing and equipment with the College of Liberal Arts and the School of Applied Science.

The Course of Study covers four years and is designed to give a foundation of broad and general culture and, at the same time,

supply a definite and practical training to those who intend to engage in any of the great lines of industrial and commercial activity. By a certain elasticity in the choice of elective subjects, it will be possible to prepare for the consular service, the teaching of commercial subjects, or public service.

REQUIREMENTS FOR ADMISSION

See page 63.

EXPENSES

See page 67.

COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN COMMERCE

The degree of Bachelor of Science in Commerce will be conferred upon students who satisfy the entrance requirements and complete the four-year course outlined below.

Freshman Year

English 1, Composition.

Mathematics 1, 2, Algebra and Trigonometry.

History 1-2, General History.

Geology 5-6, Industrial and Commercial Geography.

Select one:
- French 3-4
- German 3-4
- Spanish 3-4

Sophomore Year

Economics 1-2, General Course.

Economics 15, Industrial History.

English 3-4, English and American Literature.

Select one:
- Chemistry 1-2
- Geology 1-2
- Physics 1, 2
- Botany 1, 2
- Zoology 1, 2

Select one:
- French 5, 9
- German
- Spanish 5, 9

Two Courses.

Junior Year

Required Courses

Accounting 1-2-3, General Principles of Accounting. (One and a Half Courses).
Business Organization.
Economics 3-4, Money and Banking.
Government 1-2, Principles and Methods of Modern Government.
Government 3, Government and Business. (Half Course.)

Electives

(Select Two and a Half Courses)

Economics 6, Insurance.
Economics 9, Transportation.
Corporation Finance.
Commercial Law. (One and a Half Courses).
Economics 10, Labor Problems. (Half Course.)
Rural Economics 1-2.
French 7-8.
Portuguese 1-2.
German 11.
English 21-22, Advanced Composition. (Two Half Courses).
Industrial Management.
English 20, Business English.
Psychology 1, General Psychology.
Psychology 30, Social Psychology. (Half Course).
Psychology 35, Commercial Psychology. (Half Course).
Sociology 3, Principles of Statistics.
Government 11, American State Government.

Senior Year

Required Courses

Economics 16, Theories of Economic Reform. (Half Course).
Commercial Law. (If not taken in the Junior Year).
Psychology 1. (If not taken in the Junior Year.)

Electives

(Select Six Courses)

All courses listed under the Junior Year and the following:
Accounting 4-5-6, Advanced Accounting. (One and a Half Courses).
Accounting 7-8, Cost Accounting. (Two Half Courses).
Accounting 9, Auditing.

Economics 13-14, Public Finance.
Markets and Marketing.
Foreign Trade.
Salesmanship and Sales Management.
Advertising.
International Law.
Credits and Collections.
Investments. (Half Course).
Industrial Combinations and Trusts. (Half Course).
Employment Problems. (Half Course.)
Public Utilities. (Half Course).
Business Statistics. (Half Course).
History 9-10, Latin-American History and Customs.
Geology 21-22, Advanced Industrial and Commercial Geography.
Philosophy 13-14-15, Ethics.
Sociology.

The selection of electives in the Junior and Senior Years must be made in consultation with the Dean of the School of Commerce, and with his approval. The object will be to help each student to arrange a program of study looking toward an understanding of the special line of business in which he is planning to engage. In certain cases, where it would clearly promote a more effective preparation of the student, subjects may be chosen which are not included in the list of electives in the Junior and Senior Years.

No credit in the course is given for stenography, but every student is urged to acquire facility in the use of it before graduation.

SPECIAL STUDENTS

There are many young people already in business who feel the need of additional special training, but who are unable to spend the full four years at the University or who cannot provide proper entrance credits. Recognizing this, the School of Commerce will admit students of twenty-one years of age, or over, who cannot fulfill the entrance requirements, as special students, but not as candidates for the degree.

LECTURES

A part of the training will consist of attendance upon lectures given by representative business men of the State and the South. These will be supplemented by Government officials, both State

and national, who are dealing with industrial problems. These lectures will acquaint the students with the practical problems of current business, and enable the business man to come in touch with young people in training who may be utilized later in making their organizations more efficient.

APPRENTICESHIPS

During the summer, between the Junior and Senior years, each student will be expected to spend his time working in an establishment in the line of business for which he is preparing. This may begin in the summer following the Sophomore year, as is the case now with students who go to the National City Bank of New York. An effort will be made to assist students in securing such opportunities for the summer. However, the School must not be regarded as an employment agency, as one of the most valuable experiences in training for business comes from locating opportunities for one's self. The university itself, in its business aspects, will be used as a working laboratory, particularly the offices of the Treasurer and Business Manager. Wherever possible, each student, before graduation, will be required to make a careful analysis of a going concern in the field of his practical interest.

STUDENT ORGANIZATION

The students in the School of Commerce maintain an organization for the promotion of their interests and the work of the School. This organization has the form of a regular business corporation, and carries on its work by the methods which they will meet in the regular procedure of the business world. This affords an excellent opportunity to the students for familiarizing themselves with corporation methods.

GRADUATE WORK

Plans are being formulated for the expansion of the work of the School of Commerce to such an extent that graduates of approved institutions who have had at least two years' work in commerce may take courses leading to the degree of Master of Science in Commerce. At least one of the courses must involve research work on a business problem.

COURSES OF INSTRUCTION

Accounting

1-2-3. PRINCIPLES OF ACCOUNTING.

PROFESSOR PEACOCK. Credit, 1½ courses.
Prerequisite or corequisite, Economics 1-2. *Three hours a week. Fall, Winter and Spring Quarters. Laboratory fee, $2.00 a quarter.*

Lectures with laboratory work. Study of the theory of debit and credit; single proprietor, partnership and corporation accounts; the interest problem; depreciation; principles for the valuation of assets; construction and analysis of accounting statements, and a general survey of such fields of accounting as cost accounting, municipal accounting, railway accounting and auditing. Laboratory exercises in accounting problems and technique.

4-5-6. ADVANCED ACCOUNTING.

PROFESSOR PEACOCK. Credit, 1½ Courses.
Prerequisite, Accounting 1-2-3. *Three hours a week. Fall, Winter and Spring Quarters. Laboratory fee, $2.00 a quarter.*

Lectures with laboratory work. Study of accounting forms for special types of business concerns, including wholesale houses, department stores, agencies and banking. Accounting for the organization and liquidation of the corporation, for combinations and consolidations, for trustees and receiverships, branch houses, municipalities. Extended study of the principles of valuation and depreciation, the consolidation balance sheet and realization and liquidation. C.P.A. problems.

7-8. COST ACCOUNTING.

PROFESSOR PEACOCK. Credit, 1 course.
Prerequisite, Accounting 1-2-3. *Three hours a week. Fall and Winter Quarters. Laboratory fee, $2.00 a quarter.*

Lectures with laboratory work. Methods for collection of data relative to prime costs and a careful analysis of various methods of burden distribution. Application of principles will be made in the laboratory by means of budgets for cost accounting in different classes of enterprise.

9. AUDITING.

Professor Peacock. Credit, ½ Course.
Prerequisite, Accounting 4-5-6. *Three hours a week.*
Spring Quarter.
Laboratory fee, $2.00

Lectures and problems. Kinds of audits, systems of accounts, methods of conducting audits and problems in auditing.

BUSINESS ADMINISTRATION

1. BUSINESS ORGANIZATION.

Professor Matherly. Credit, 1 course.
Prerequisite, Economics 1-2. *Five hours a week.*
Fall Quarter.

The types and methods of business organization with emphasis on the corporation, its nature, development and operation. The external relations of a business organization and the internal co-ordination of the factors in production with a view to the establishment of effective control and definite responsibility for results.

2. INDUSTRIAL MANAGEMENT.

Professor Matherly. Credit, 1 course.
Prerequisite, Economics 1-2. *Five hours a week.*
Winter Quarter.

This course covers the problems involved in the construction, equipment and internal administration of an industrial enterprise. The location of plant; adaptation of building to processes; routing of work; types of specialization and methods of co-ordinating workers and departments; the delegation of authority and relation of responsibility to authority; the development and maintenance of standards; methods of purchasing, storing and checking up materials; the determination and recording of costs; the handling of labor.

3. CORPORATION FINANCE.

Professor Matherly. Credit, 1 course.
Prerequisite, Economics 1-2. *Five hours a week.*
Spring Quarter.

Methods of financing business enterprise, the principles governing the issuance and proportion of the various classes of securities issued by a corporation; the conditions which lead to the

issuance of particular forms of securities, the organization of subsidiaries, methods of financing mergers, combinations and consolidations; amortization of debts; reorganizations intercorporate relations. The preparation of securities with relation to the market.

4. INDUSTRIAL COMBINATIONS.

PROFESSOR MATHERLY. Credit, ½ course.
Prerequisites, Economics 1-2, Business Organization 1. *Three hours a week. Fall Quarter.*

A study of the forms of industrial combinations. The combination movement in representative industries; the evils and problems of combinations or trusts; public policy toward amalgamations of capital; anti-trust legislation by state and federal government with special reference to the Sherman Anti-Trust Act. Special attention will be given to the possibility of government regulation of big business. Alternates with Business Statistics. Not given in 1921-1922.

5. BUSINESS STATISTICS.

PROFESSOR MATHERLY. Credit, ½ course.
Prerequisites, Economics 1-2, *Three hours a week. Fall Quarter.*

Statistical methods, statistical indices of business conditions, and sources of statistical information. The use of statistics in the solution of sales and advertising problems; the importance and use of factory statistics; statistics for business executives and how to interpret them in determining business policies. Alternates with Industrial Combinations.

6. INVESTMENTS.

PROFESSOR MATHERLY. Credit, ½ course.
Prerequisites, Economics 1-2, *Three hours a week. Winter Quarter.*

A study of the various forms of investments with reference to their suitability for the different types of investors; the money market, its nature and the financial factors which influence the price movements of securities; elements of sound investment and methods of computing net earnings, amortization, rights and convertibles. The aim will be to train the student so he will be able to act efficiently in a financial capacity either as a borrower or lender, as investor or trustee, or as fiscal agent of a corporation. Alternates with Public Utilities. Not given in 1921-1922.

7. PUBLIC UTILITIES.

Professor Matherly. Credit, ½ course.
Prerequisites, Economics 1-2, *Three hours a week.*
Business Organization 1. *Winter Quarter.*

The kinds of public utilities with an examination of the economic functions of telephone and telegraph companies, gas, water and electric light plants, and the various electric railways. A critical study of the bases of rate-making and public utility valuations. Special attention will be directed to the public ownership of public utilities. Alternates with Investments.

8. EMPLOYMENT MANAGEMENT.

Professor Matherly. Credit, ½ course.
Prerequisites, Economics 1-2, *Three hours a week.*
Spring Quarter.

A critical study of the methods of hiring and handling employees in the various lines of industry. The supply, selection, training, promotion, transfer and discharge of employees; the computation and significance of labor turnover; housing, educational and recreational facilities; the functions of an employment department with reference to efficiency and the maintenance of good will between employees and employers.

Marketing and Salesmanship

1. MARKETS AND MARKETING.

Professor ————————. Credit, 1 course.
Five hours a week.
Fall Quarter.

The course deals with the organization, methods, principles and policies of the various types of markets. The leading industries are considered with reference to the nature of the product and the processes in production which influence marketing; the nature of the markets, and the mechanism and methods of marketing. Such problems as standardization, brand development, and price policies are also considered.

2. FOREIGN TRADE.

Professor ————————. Credit, 1 course.
Five hours a week.
Winter Quarter.

A study of the various trade channels and the organization and methods of foreign trade. The following topics are considered: The selection of markets, the determination of selling methods and their execution, the selection of price policies, relations with

commission houses and agencies, methods of packing, shipping, insuring, and financing and holding trade. Particular attention will be given to South American trade relations.

3. SALESMANSHIP.

PROFESSOR ————————. Credit, ½ course.
Three hours a week.
Fall Quarter.

This course will include a careful analysis of the psychology of selling; the qualifications of a good salesman, and their development; their relative value of suggestion, persuasion, and argument in securing decision, the scientific analysis of a sale—the preapproach, the approach, the demonstration and consummation. Typical problems in selling at retail and wholesale and in marketing various types of specialties are presented.

4. SALES MANAGEMENT.

PROFESSOR ————————. Credit, ½ course.
Three hours a week.
Winter Quarter.

This course follows the course on Salesmanship but goes beyond and considers the organization and operation of a sales department. Some of the subjects studied are: the functions of a sales manager; analysis of the goods, the market and the prospective customers; the planning and management of selling campaigns; sales equipment, records, tests, and relative costs; selecting, training, organizing, surpervising and compensating salesmen.

5. ADVERTISING.

PROFESSOR ————————. Credit, 1 course.
Five hours a week.
Spring Quarter.

The course consists of a study of the psychological basis of advertising, the types of advertising, and their adaptation to the various lines of business, the relative value of the various advertising media, the mechanism of an advertisement and methods of testing effectiveness. Attention is also given to the work of planning and executing an advertising campaign and checking up the results. Practical problems are a part of the course.

6. CREDITS AND COLLECTIONS.

Professor ————————. Credit, ½ course.
Three hours a week.
Spring Quarter.

A study of the position of credit in modern industry and its relation to the extension of trade is combined with an analysis of the elements which enter into the determination of credit risks. Consideration is also given to the methods by which credit is extended, the standardization of the forms of credit and the means by which collections may be effected. Some attention is given to the work of collection departments and agencies, and adjustment methods.

Allied Courses

English 20. COMPOSITION.

Mr. Howell. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.*
Spring Quarter.

A course similar to English 21 in purpose, but emphasizing commercial relations and problems, and affording practice in the writing of professional forms. Especially designed for students in the School of Commerce.

French 9. COMMERCIAL FRENCH.

Professor Staab. Credit, 1 course
Junior and Senior elective *Five hours a week.*
Prerequisite, French 5. *Spring Quarter.*

The object of this course is to give the student practical training in modern French. Newspaper and magazine articles dealing with the life and customs of the country will be read. Practice in social and commercial correspondence. This course will be largely conducted in French.

Spanish 9. COMMERCIAL SPANISH.

Professor Leavitt. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Spring Quarter.
Prerequisite, Spanish 5.

The object of this course is to give the student practical training in modern Spanish. Newspaper and magazine articles dealing with the life and customs of South America will be read. Practice in social and commercial correspondence. This course will be largely conducted in Spanish.

Government 3. GOVERNMENT AND BUSINESS.

PROFESSOR HAMILTON. Credit, ½ course.
Three hours a week.
Spring Quarter.

A brief course dealing with the relations of modern governments to agriculture, industry, and commerce. After tracing the historical development of these relations for the past century, the remainder of the course will be devoted to an investigation of the purposes and principles underlying present-day conditions. Open only to students in the School of Commerce and those receiving a permit from the instructor.

Law 1-2-3. COMMERCIAL LAW.

PROFESSOR WINSTON. Credit, 1 ½ courses.
Three hours a week.
Fall, Winter and Spring Quarters.

The aim of the course is to give the student an understanding of the main principles of law which govern in the daily conduct of business. The topics discussed are: Contracts, agency, negotiable instruments, sales, bailments, corporations, partnerships and bankruptcy.

Sociology 3. STATISTICS AND STATISTICAL METHODS.

PROFESSOR ODUM. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Winter Quarter.

A brief survey of the field of theoretical statistics, with a thorough mastery of the elements of numbering, averages, modes, medians, variations, and scientific principles involved. Special emphasis will be placed upon practical methods of utilizing statistics, the recognition of facts, gathering data, compiling, plotting, conclusions, and the special application of statistics to social phenomena.

Psychology 35. COMMERCIAL PSYCHOLOGY.

PROFESSOR DASHIELL. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Prerequisites, Psychology 1 required and Psychology 30 (Social) advised. *Spring Quarter.*

A survey of psychological aspects of industry and business, and of applications being made from the science of psychology to the

latter. To include such topics as class consciousness, vocational guidance, personal management, scientific management, job analysis, advertising and salesmanship, industrial hygiene. The attitude throughout to be scientific and critical. Special needs of students of School of Commerce and Finance to be kept in mind. Readings and discussions.

Geology 5-6. INDUSTRIAL AND COMMERCIAL GEOGRAPHY.

Professors Cobb and Prouty and Mr. Babb. Credit, 2 courses. *Five hours a week.*

Required of Freshmen in the School of Commerce. *Fall and Winter Quarters.* *Laboratory fee,* $2.50 *a quarter.*

Lectures and laboratory work. The first part of the course deals briefly with weather and climate, origin and nature of soils and the chief natural divisions of the world. This is followed by a study of the geography, the commerce and the industry of the more important countries, with especial emphasis on the countries with which we now have or are likely to have extensive commercial relations.

THE SCHOOL OF PUBLIC WELFARE

FACULTY

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*

HOWARD WASHINGTON ODUM, Ph.D., *Director.*

EUGENE CUNNINGHAM BRANSON, Litt.D., *Kenan Professor of Rural Social Science.*

HOWARD WASHINGTON ODUM, Ph.D., *Kenan Professor of Sociology.*

JESSE FREDERICK STEINER, Ph.D., *Professor of Social Technology.*

HARRY GEORGE NEWMAN, B.Litt., LL.B., *Assistant Professor of Family Case Work.*

EVELYN BUCHAN, B.Ph., *Supervisor of Field Work.*

LOUIS ROUND WILSON, Ph.D., *Kenan Professor of Library Administration.*

DUDLEY DEWITT CARROLL, M.A., *Dean of the School of Commerce and Professor of Economics.*

JOHN FREDERICK DASHIELL, Ph.D., *Professor Psychology.*

THORNDIKE SAVILLE, C.E., *Associate Professor of Hydraulic and Sanitary Engineering.*

REQUIREMENTS FOR ADMISSION

See page 64.

EXPENSES

See page 67.

HISTORICAL STATEMENT

The School of Public Welfare was authorized by the University Board of Trustees at their mid-year meeting, 1919, in pursuance of their continuing policy of rendering larger services to the State and in accord with the belief that "professional training for social work and community leadership will make substantial progress in the projection of the ideals of a university professional school into the practical programs of public welfare. These ideals include: A

standard curriculum of permanent and administrative unity; a special faculty of trained teachers; a faculty of co-operating university professors; the large university faculties and influence; a group of students well prepared and possessing the personality and character for leadership; a program of field work which provides adequate training and contributes to community building; the support of an enthusiastic and informed constituency; cordial co-operation with departments of public service and with private enterprise; the spirit of scientific and constructive work characteristic of the best educational statesmanship."

In accordance, therefore, with the purpose of the School, it has proceeded to organize for Southern-wide work on a fourfold basis, stressing particularly the domain of rural leadership and service:

The Division of Instruction in social science in the college and university curricula and in the extension of these subjects to the people through lectures, publication and training in citizenship.

The Division of Training for Social Work, utilizing the best standard methods, and striving to contribute to the national field of training for rural social work.

The Division of Social Engineering, through which direct service may be rendered to counties, towns, villages and remote communities and co-operation extended directly to county superintendents of public welfare and other workers in the field.

The Division of Social and Industrial Research and Publication, through which contributions may be made to the knowledge of the subjects involved and to the larger program of public welfare.

COURSES OFFERED

The following courses are announced:

1. A one-year course of professional training, consisting of two quarters in residence and one quarter in field work under supervision. This course is open to graduates of colleges of good standing. In addition to the specialized field work required during the third quarter, students taking this course will carry on field work in counties adjacent to the university during the two quarters in residence. A certificate will be issued upon completion of this course.

2. A two-year course of professional training. The first year of this course is identical with the one-year course. It will be followed by another year both in residence and in the field. Courses

during the second year are designed for more intensive specialization and research, and for more responsible administrative and executive work. A diploma will be issued upon completion of this course.

3. A four-year collegiate course, leading to the bachelor's degree with major in the social sciences is available for undergraduates and especially adapted to those who wish to prepare for special leadership in educational and administrative work in this field. It also makes the student thus graduating eligible for the advanced post-graduate course in Social Work and Administration.

4. Special courses of one quarter or more, arranged for students desiring to do special research or short time work. Students not eligible to the regular courses by reason of not holding a degree may be admitted to these special courses as *special students* provided they have had sufficient general education and practical experience to insure satisfactory work and conform to the university requirements.

5. Summer Institutes, arranged for special groups, including county superintendents of public welfare, county directors of community recreation, teachers and principals interested specially in community work, and others.

SCHOLARSHIPS

The North Carolina Federation of Women's Clubs at their 1920 annual meeting established two scholarships of $200 each, to be awarded to young women of the State of North Carolina. The only conditions are that they fulfill the school requirements and be approved by the Committee and the School of Public Welfare. These scholarships are awarded generously by the Women's Clubs in their effort to support a trained leadership for welfare work in the State. Applications should be made to Mrs. Clarence A. Johnson, Director of Child Welfare, Raleigh, N. C.

The American Red Cross has established a fund to provide a limited number of scholarships for especially qualified persons who wish to enter Red Cross service. While the amount of each scholarship may vary to meet different situations, it will usually take the form of a grant of $75.00 a month for a period of three to nine months, depending upon the time required for the course of training. The scholarships have been provided because of the great need of the Red Cross for trained workers and are assigned only to those who will remain in the employ of the Red Cross for a year following the completion of their training course. Candi-

dates for these scholarships should be persons of good personality and capacity for leadership whose previous studies and practical experience form a good foundation for technical preparation for Red Cross service.

From time to time special scholarships and fellowships will be awarded, in return for which special social work may be done. Part time work and extension supervision may sometimes become a part of a mature student's training. Special funds are being provided also for special scholarships in the study of and work among mill villages and other phases of social and industrial problems.

SPECIAL BULLETIN

For all details of practical courses given and methods of instruction see the special bulletin of the Division of Training for Social Work. See also the courses listed under the Department of Sociology, Rural Social Science and Economics.

THE GRADUATE SCHOOL

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*
EDWIN GREENLAW, Ph.D., *Dean.*

THE ADMINISTRATIVE BOARD

WILLIAM DEBERNIERE MACNIDER, M.D., *Kenan Professor of Pharmacology.*

WILLIAM CHAMBERS COKER, Ph.D., *Kenan Professor of Botany.*

WILLIAM MORTON DEY, Ph.D., *Professor of the Romance Languages and Literatures.*

PARKER HAYWARD DAGGETT, S.B., *Professor of Electrical Engineering.*

JAMES MUNSIE BELL, Ph.D., *Smith Professor of Chemistry.*

LESTER ALONZO WILLIAMS, A.M., Pd.D., *Professor of School Administration.*

WILLIAM WHATLEY PIERSON, JR., Ph.D., *Associate Professor of History.*

GUSTAVE ADOLPHUS HARRER, Ph.D., *Assistant Professor of Latin.*

The Graduate School finds its province in the fostering of research, in training students to become investigators and teachers in special fields of learning, and in supplying opportunity for further study to those who have already completed a college course. The University of North Carolina has been interested in research for more than a century, and has made noteworthy contributions in science, history and the languages. Through its research clubs and learned journals, as well as through publications and other contributions to learning made by members of its faculty, the University has acquired the authority to give advanced instruction. For this it is competent both from the standpoint of the personnel of its faculty and in material equipment in libraries and laboratories.

Work for advanced degrees is under the supervision of the Graduate Faculty, which consists of those officers of professorial rank who are chiefly interested in the Graduate School, either because they offer courses for graduate students or because of their interest in research. The immediate direction of the Graduate School is in charge of an Administrative Board, of which the Dean is chairman.

ADMISSION TO CANDIDACY FOR A HIGHER DEGREE

Not earlier than the last week of his first quarter of residence, a member of the Graduate School may apply for admission to candidacy for a higher degree. This application must be accompanied by a transcript of his undergraduate record in the departments in which he proposes to do his major and minor work, and in allied departments. There must also be a certificate from the heads of the major and minor departments in which the candidate is working at the University of North Carolina as to the candidate's fitness to carry on such advanced work as may be required for the degree. In case a student lacks certain elementary courses in either the major or the minor department, such courses will be indicated on the departmental certificate, and will become prerequisite courses without graduate credit.

It should be noted that this distinction between admission to the Graduate School and admission to candidacy for a degree does not necessarily involve any extension of the time required for the degree. Properly qualified students will register at once, with the approval of the departments interested, for such advanced courses as they wish to take, and all advanced courses completed according to the rules for graduate work will be credited towards the degree.

EXPENSES

See page 67.

UNIVERSITY TEACHING FELLOWSHIPS

Twenty Teaching Fellowships, each with a stipend of $500, are available to graduate students. These Fellowships carry free tuition, and are payable in nine monthly installments, beginning October 15th of the year for which they are awarded. Holders of these Fellowships are expected to perform certain limited services as teachers or laboratory assistants in the department to which they are assigned. This department must be the major department of graduate study, and each holder of a Fellowship will be required to pursue advanced courses in the department during his term as Fellow.

Fellowships are awarded only to men who present satisfactory records as students and who give promise of being able to carry on advanced work with distinction. Teaching experience is desirable, but is not required. The time required for the Master's degree may be extended in the case of men who hold Fellowships;

ordinarily such men will not find it possible to register for more than two-thirds of the program ordinarily carried by graduate students.

Correspondence in regard to the Teaching Fellowships may be addressed to the Dean or to the head of the department in which the candidate proposes to do his major work. A special form of application, to be secured from the Dean's office, must be filed on or before April 1st. Elections to Fellowships will be made by the Administrative Board of the Graduate School, on nomination by the department to which the Fellowship is to be assigned.

GENERAL REGULATIONS

The unit of work is the course, by which is meant, as a rule, a class meeting five times a week. Half courses are also offered. In some courses open only to graduate students, such as the seminars and other research courses, the formal class exercises are modified. But all such work is credited in terms of courses and half courses.

Students are ordinarily expected to register for three courses. But two half courses may be substituted for a full course. Not more than three courses, or fifteen hours of class attendance, will be permitted. Students of more than one year's standing, candidates for the doctor's degree, are permitted greater latitude with reference to courses for which formal registration is required. Such considerations as the amount of time devoted to research, to work on the doctoral dissertation, and the like, weigh in the estimate of what constitutes full work. But in all such cases detailed reports by the Department are required before residence credit is given.

Graduate students who desire credit for attendance at the Summer Session must register at the office of the Dean. The rules respecting admission to candidacy for higher degrees, for selection and approval of courses, and for the higher degrees, are the same in their application to Summer Session students as in the case of students registered for the regular sessions.

Teachers of experience whose credentials and work are satisfactory to the Administrative Board may complete the requirements for the Master's degrees in four summer sessions. Such students will be expected to continue their studies during the year under direction of the special committee in charge of their work, and may do part of the work required for their theses in this manner. In certain approved cases, also, a limited amount of credit may be transferred from work done in another University Summer School. Every such case is treated individually, and must be ap-

proved by the Administrative Board, on recommendation of the Department, at the time application is made for admission to candidacy for a higher degree. Students who are not admitted under these special conditions will find five summers necessary for completion of the requirements for the Master's degree.

Only work announced as open for graduate credit in this Bulletin or in the Bulletin of the Summer Session may be counted toward the higher degrees.

Work done *in absentia* will not be counted for graduate credit, except that in certain cases approved by the Department and by the Administrative Board, part of the work on the thesis for a higher degree may be done elsewhere, and except, further, that part of the work required for the degree of Doctor of Philosophy, may, on the recommendation of the major department and with the approval of the Administrative Board, be done at another University. But all such work, even when credited, is subject to examination at the finals required for the degree.

Graduate students are subject to the same rules regarding attendance upon classes, faithfulness to assigned tasks, examinations and credit as students in other departments of the University. But graduate work usually pre-supposes a greater amount of time for research in the library or the laboratory, and the student, being more mature, is thrown more upon his own responsibility. For these reasons excessive registration is not permitted. The whole idea of graduate work is comprised in a more intense specialization and, therefore, more complete investigation than is necessary or wise in undergraduate instruction.

Each graduate student works under the direction of a special committee which consists usually of the head of the major department, or of some member of the staff of that department under whom the candidate is doing special work, who serves as chairman, and the other instructors with whom the candidate is registered.

No work falling below the standard represented by the grade of "3" is counted for graduate credit. At least half the work credited for any one year of residence must be of grade "2," or better.

THE GRADUATE DEGREES

The degrees under the supervision of the Graduate Faculty are Master of Arts (A.M.), Master of Science (M.S.), and Doctor of Philosophy (Ph.D.). For a complete statement of the requirements for these degrees reference must be made to the special Bulletin of the Graduate School, published in February of each year.

THE DEGREE OF MASTER OF ARTS

For the degree of Master of Arts the general prerequisite is the completion of a course leading to the degree of Bachelor of Arts in a college or university of standard grade. This course should have included special study in the department in which the graduate degree is sought sufficient in extent to constitute a proper preparation for advanced work. If the undergraduate preparation has been insufficient certain preliminary courses may be required before the student is admitted to candidacy for the degree.

Nine full courses of advanced character are required for the Master's degree. To complete these courses as least one full year's residence is required. No course will be counted for the degree unless it appears in the Graduate Bulletin, catalogue number, or is approved by the Administrative Board. Of the nine courses offered, six must be from one department recognized as the major, but with the approval of the special advisory committee and of the Administrative Board, closely allied work in another department may be accepted as a part of the major. More than six courses in one department may not be counted except under special conditions approved by the Administrative Board.

The remaining three courses, constituting the minor, are to be chosen from a department different from the major. But the relation of the minor to the major must be such as to constitute a clearly unified program.

Ordinarily a reading knowledge of at least one modern foreign language is expected of candidates for the degree.

Besides the completion of advanced courses that constitute a unified plan of study, the fitness of the student for the degree is tested in two ways: by a thesis and by oral and written final examinations. The thesis tests the candidate's knowledge of the method of investigation and his ability to make use of the knowledge he has acquired. The examinations test his knowledge of his special field by directing attention to the field as a whole, as contrasted with the course, which deals only with a limited portion of the field.

The subject chosen for the thesis should be approved by the advisory committee and reported to the Administrative Board by the end of the first quarter of residence. No change in subject, or deferring of the time of approval, will be permitted unless at least two quarters of residence intervene between the approval of the subject and the conferring of the degree, except

that, with the permission of the Administrative Board, the thesis may be completed by a student not in residence who has satisfied the requirements as to courses.

For details concerning the character of the thesis, the form in which it is to be presented, and concerning the examinations for the degree, the student is referred to the catalogue number of the Graduate Bulletin.

THE DEGREE OF MASTER OF SCIENCE

The subjects of major study may be Chemistry, Electrical Engineering, or Geology, and the prerequisite courses are the courses leading to the degrees: B.S. in Chemistry, B.S. in Electrical Engineering, and B.S. in Geology respectively. Before becoming a candidate for a master's degree the student must complete the courses leading to the bachelor's degree as outlined in the general catalogue.

Courses Leading to the Degree of Master of Science

I. Master of Science in Chemistry

One of the groups: Chemistry 127-128-129
Chemistry 177-178-179
Chemistry 197-198-199

Two of the groups: Chemistry 114-115-116
Chemistry 124-125-126
Chemistry 174-175-176
Chemistry 194-195-196

Three approved courses from one of the following departments:

Electrical Engineering
Geology
Mathematics
Physics

II. Master of Science in Electrical Engineering

Electrical Engineering 100-101-102
Electrical Engineering 110-111-112

Three approved courses from one of the following departments:

Civil Engineering
Chemistry
Geology
Physics

III. MASTER OF SCIENCE IN GEOLOGY

Geology 104-105-106
Geology 107-108-109

Three approved courses in the following departments:
Chemistry
Civil Engineering
Botany and Zoology

Other Requirements

The requirements regarding modern language, thesis, examinations, committee, residence, and conferring of degrees are the same as for Masters of Arts.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is conferred only upon those who have completed, with high distinction, a period of extended study and investigation in a single field of learning during which they have gained control of the materials in the chosen field, have mastered the method of advanced study, and have illustrated this method through a dissertation, the result of independent research, which adds to the sum of human knowledge or presents results that have enduring value. Neither the accumulation of facts, however great in amount, nor the completion of advanced courses, however numerous, can be substituted for this power of independent investigation and the proofs of its possession. While it is true that a well prepared student of good ability may secure the degree upon the completion of three years study, it should be understood that this time requirement is wholly secondary to other considerations that will be explained in the following paragraphs.

Admission and Registration

The rules for admission to courses leading to the degree of Doctor of Philosophy and for registration for courses in the first year of residence are the same as those stated above in the section on the degree of Master of Arts. The work for the first year is substantially the same as that provided for candidates for the Master's degree, and while it is not necessary to take the Master's degree it is usually advisable. The provisions for choice of major and minor subjects, and for the direction of the student's work by a special committee, are as already set forth under the requirements for the Masters' degree.

Second and Third Years

Not later than the beginning of the second year's work a tentative program of study must be approved by the special committee and by the Administrative Board. During the second year this program may consist chiefly of advanced courses in both major and minor fields. The minor should be completed during this year. A reading knowledge of French and German, to be certified by the respective departments, is essential to the work of the second year, and in the case of certain subjects other language requirements may be imposed by the special committee. During the second year, also, work on the dissertation should be begun.

Not earlier than the end of the second year, and at least one academic year prior to the Commencement at which the degree is expected, a preliminary oral examination shall be given by the special advisory committee in charge of the candidate's work plus all members of the staff of the major and minor departments. This examination shall cover all the work of the two years. As a rule, no student will be admitted to candidacy for the doctorate until this examination has been passed.

The work of the third year requires no special registration in courses, though the candidate will find it advisable to attend certain courses as a lecture student. The major portion of the time is to be spent upon the dissertation or upon special laboratory or research work, and in preparation for the final examinations. A portion of the second and third years may be spent in residence at another university. In some departments such residence is required, the university being chosen according to the student's need for special courses in the field of his dissertation, or for the library or laboratory facilities it offers. Instead of another university, work in a large library or in some special laboratory may be substituted at the discretion of the student and his advisory committee.

The Dissertation

The subject chosen for the dissertation must be approved by the committee and by the Administrative Board not later than the time of the preliminary examinations. But work upon it, such as preliminary bibliography, collection of material, etc., should be begun earlier than this. The dissertation is the fruit of thorough investigation of a definite problem and finds its value in the scholarly and workmanlike manner in which it is presented, in its contribution to learning, and in the mental power which it displays. By "contribution to learning" is understood

not necessarily the discovery of something previously unknown but the presentation of the results of the investigation of a worthwhile problem in such a way as to merit the claim of originality.

The dissertation must be presented, in three typewritten copies, at least six weeks before the Commencement at which the candidate expects his degree. It must comply with the rules for form of theses prescribed by the Administrative Board, and abstracts must be supplied as under the rules for Master's theses. A thesis committee, appointed by the Dean, shall examine the dissertation, and no dissertation shall be accepted unless it secures the unanimous vote of the committee.

Publication of the dissertation, except by abstract in the Graduate Bulletin, is not required. But the various journals published by the University afford opportunity for such publication, in whole or part.

The Examinations

Reference has already been made to the preliminary examination required for admission to candidacy for the doctorate.

At least four weeks before the end of the period of study a written examination in the major subject must be passed by the candidate. This examination, which is conducted under the direction of the major department, may be limited to the courses taken by the candidate, but as a rule it is based upon the entire field of knowledge represented by the major.

The final oral examination must take place at least two weeks before the Commencement at which the student is a candidate for the degree. The committee to have charge of this examination is appointd by the Dean, and includes the head of the major department or his representative as chairman, with other members of the major and minor departments as assistants. The date and place of the examination shall be publicly announced, and the examination shall be open to any member of the Graduate Faculty.

FACILITIES FOR RESEARCH

Statements concerning the libraries of the University and concerning laboratory facilities will be found elsewhere in the catalogue. The University publishes three journals of research, all of them firmly established and widely known. *The Elisha Mitchell Journal,* now in its thirty-sixth volume, has published a very large number of scientific papers, particularly in chemistry, botany and zoology. The *James Sprunt Historical Monographs,* of which

sixteen volumes have appeared, are devoted to the results of historical studies, chiefly relating to North Carolina. *Studies in Philology,* a quarterly journal, now in its eighteenth volume, originally was devoted to the publication of monographs by members of the language departments of the University, but is now conducted on the same lines as *Modern Philology, Modern Language Notes, The Classical Journal,* and other journals of research, printing contributions by the foremost American scholars.

Several departments maintain their own clubs for the purpose of stimulating interest in research. Of wider appeal are such organizations as the Elisha Mitchell Scientific Society, founded in 1883, and the Philological Club, founded and maintained by the language departments of the University. To these organizations graduate students are admitted. There is also a Graduate Club, composed of students and members of the Graduate Faculty, which holds monthly meetings for the purpose of stimulating interest in the method of research in general, and in the relation of various fields of investigation to each other. The organization publishes an annual *Year Book,* a record of its activities and of research at the University, with items of interest concerning former members of the Graduate School.

A Bulletin of *Research in Progress* is issued annually by the Graduate School, and contains abstracts of publication by members of the faculty, abstracts of theses presented for advanced degrees, and reports of investigations under way in the various departments.

FURTHER INFORMATION

Inquiries as to advanced work in special departments may be addressed to the heads of departments in which the student is interested. Inquiries relating to graduate work in general, admission, credits, requirements for degrees, requests for bulletins, and the like, should be addressed to the Dean of the Graduate School.

THE SCHOOL OF LAW

FACULTY

Harry Woodburn Chase, Ph.D., *President.*
Lucius Polk McGehee, A.B., *Dean.*

Lucius Polk McGehee, A.B., *Professor of Law.*
Patrick Henry Winston, *Professor of Law.*
Atwell Campbell McIntosh, A.M., *Professor of Law.*
Oscar Ogburn Efird, A.M., LL.B., *Assistant Professor of Law.*

William Reynolds Allen, *Associate Justice Supreme Court of North Carolina, Lecturer on Property and Constitutional Law in Summer School.*

HISTORICAL SKETCH

The law school, which developed into the Law School of the University, was founded in 1843 at Chapel Hill as a private school by William H. Battle, then a judge of the Superior Court, later a justice of the Supreme Court of the State. In 1845 Judge Battle was made Professor of Law in the University, and it was provided that the degree of Bachelor of Laws should be conferred on those completing the prescribed two-year course. From the records of the University, however, it seems that few degrees were actually conferred. For a long time the school maintained a certain independence of the University. The Professor of Law received no salary, though he enjoyed the fees from his classes, and the students were not entirely subject to the discipline of the University.

This was the position of the school from its formation until 1899, a period which covered the professorship of Judge Battle who retired in 1879, two years when the law classes were conducted by Hon. Kemp P. Battle, then President of the University, and the professorship of Dr. John Manning, elected 1881, died 1899. In 1899 the school was completely incorporated into the University, with the late Judge James C. MacRae, previously a justice of the Supreme Court of North Carolina, as the first Dean of the Law School.

REQUIREMENTS FOR ADMISSION

See page 64.

EXPENSES

See page 67.

REQUIREMENTS FOR GRADUATION

For the Degree of LL.B.

The degree of LL.B. is conferred on students who complete the three years course of study on pages 172-175.

For the Combined Degrees of A.B. and LL.B.

The University offers the combined degrees of A.B. and LL.B. to students who have complied with the following requirements:

1. The courses in the College of Liberal Arts outlined below.

2. All academic work to be completed by the end of the last regular examination period of the Junior year of the candidate.

3. The completion of all courses in the School of Law for the degree of LL.B.

Students taking this combined course will be enabled to get the two degrees in six instead of seven years.

Prescribed courses in the College of Liberal Arts for the combined degree:

FIRST YEAR	SECOND YEAR	THIRD YEAR
Eng. 1	Eng. 3-4	Econ. 1-2
Math. 1-2	Lat. 3-4	Philos. 1
Lat. 1-2	Hist. 3-4	Eng. 2 courses
Select one: Greek 3-4, French 3-4, Ger. 3-4	Select one: Greek 5, French 5, Ger. 21	Hist. 2 courses
Hist. 1-2	Select one: Math. 3-4, Phys. 1-2, Chem. 1-2	Elective 2 courses

PREPARATION FOR NORTH CAROLINA BAR

The Supreme Court of the State prescribes a two-year course for admission to the bar, the requirements of which are given below. Students preparing for the State Bar Examination may

select from the curriculum of the school the subjects required by the Supreme Court Rules and complete the course in two years. Students who have read law elsewhere for a whole or a part of the prescribed two years may take a part of the course beginning with any half year, and in the Summer School review the whole Supreme Court course.

NUMBER OF HOURS OF WORK REQUIRED AND PERMITTED

Students are advised not to attempt to take more hours of work than are included in the regular curriculum for the degree, nor will they be permitted to do so except with the special permission of the Faculty granted only for good cause.

No student, unless he is also taking other courses in the University, will be permitted to take less than ten hours of work weekly, nor will a student taking less than ten hours weekly be considered as studying law within the rule of the Supreme Court requiring two years of study of law as a necessary preliminary of applicants for license to practice in North Carolina.

COURSES AND METHODS OF INSTRUCTION

Work in the School is divided into two half-years instead of three quarters. The first half-year begins at the same time as the fall quarter of the College of Liberal Arts, the second half-year begins the last Monday in January.

The courses offered and the general order in which it is advisable that they should be presented is indicated in the Program of Studies given below. Variations from the order may be permitted for good cause after the first year. The instruction is mainly by study of cases and quizzes in connection therewith but some courses are given in lectures or in connection with text books.

The names of the instructors and the books used in the different courses indicate the last courses actually given, and are subject to change.

The regular work for the degree of LL.B. is indicated in the Program of Studies. Fifteen hours weekly for three years constitutes the course required.

PROGRAM OF STUDIES

First Year

CONTRACTS: Three hours, both terms. McIntosh's *Cases on Contracts.* Professor MCINTOSH.

TORTS: Two hours, both terms. Burdick's *Cases on Torts.* Professor WINSTON.

Property I: Three hours, both terms. Brennan's *Cases on Personal Property;* Finch's *Cases on Property in Law,* begun. Professor McGehee.

Civil Procedure at Common Law: Two hours, both terms. Scott's *Cases on Civil Procedure.* Professor Efird.

Criminal Law: Three hours, Fall term. Derby's *Cases in Criminal Law.* Professor Efird.

Agency: Three hours, Spring term. Rinehardt's *Cases on Agency.* Professor Efird.

Introduction to Law: Two hours, Fall term. Text to be selected; readings; lectures. Professor McGehee.

Equity Jurisprudence I: Two hours, Spring term. Ames' *Cases on Equity Jurisprudence.* Professor Winston.

Use of Authorities and Brief Making: One hour, Fall term. No Credit. Professor McGehee.

Practice Course: One hour, Spring term. No Credit. Professor ————————.

Second Year

Property II: Two hours, both terms. Finch's *Cases on Property in Law.* Professor McGehee.

Equity II: Two hours, both terms. Ames' *Cases.* Professor Winston.

Procedure in Equity and Under Code of Civil Procedure: Two hours, both terms. Rush's *Equity Pleading; N. C. Code of Civil Procedure;* Lloyd's *Cases on Civil Procedure.* Professor McIntosh.

Evidence: Two hours, both terms. Thayer's *Cases,* Second Edition. Professor McIntosh.

Negotiable Instruments: Three hours, Fall term. Colson's-Huffcut's *Cases.* Professor Efird.

Sales: Three hours, Spring term. Erwin's *Cases.* Professor Efird.

PERSONS: Two hours, Fall term. Woodruff's *Cases.* Professor EFIRD.

DAMAGES: Two hours, Spring term. Text to be selected. Professor MCINTOSH.

LEGAL HISTORY: Two hours, Fall term. Jenks' *History English Law; Lectures.* Professor MCGEHEE.

STATUTES AND LEGISLATION: Two hours, Spring term. Text to be selected; Lectures. Professor MCGEHEE.

PRACTICE WORK: Two hours, both terms. No Credit. Professors MCGEHEE AND MCINTOSH.

Third Year

CONSTITUTIONAL LAW: Two hours, both terms. Hall's *Cases.* Professor MCGEHEE.

PRIVATE CORPORATIONS: Two hours, both terms. Warren's *Cases.* Professor EFIRD.

WILLS AND ADMINISTRATION: Two hours, both terms. Costigan's *Cases.* Professor WINSTON.

CONFLICT OF LAWS: Two hours, both terms. Text to be selected. Professor MCINTOSH.

INSURANCE: Two hours, Fall term. Richard's *Cases.* Professor WINSTON.

*FEDERAL COURTS: Two hours, Fall term. Hughes' *Federal Procedure.* Professor MCINTOSH.

*MUNICIPAL CORPORATIONS: Two hours, Fall term. Macy's *Cases.* Professor MCINTOSH.

CARRIERS AND PUBLIC SERVICE CORPORATIONS: Three hours, Fall term. Goddard's *Cases on Bailments.* Professor EFIRD.

PARTNERSHIP: Two hours, Spring term. Mechem's *Cases.* Professor WINSTON.

* Omitted in alternate years.

*Bankruptcy: Two hours, Spring term. Student's *Remington.* Professor McIntosh.

*Public Officers and Extraordinary Remedies: Two hours, Spring term. Text to be selected. Professor ————————.

International Law: Three hours, Spring term. Evan's *Cases.* Professor McGehee.

STUDENTS LAW CLUBS

The students of the Law School are organized into Law Clubs in which instructive voluntary practice is afforded in the preparation, argument and trial of legal questions, and in the use of legal authorities. Each member of a club is expected during the year to take part in several such trials in conformity with the programs of the clubs, which are standardized. This work is carried on with the co-operation of the Law Faculty.

ADDITIONAL OPPORTUNITIES OF UNIVERSITY LIFE

Students in the Law School will be admitted without additional expense to the courses given in the Departments of Economics, Philosophy, and History in the College of Liberal Arts and to the courses in Public Speaking and English, subject to the rules stated as to the number of hours which a student may take, and subject to the approval of the Dean of the School of Law. A student taking such a course must satisfy the entrance requirements for the course selected.

Students of the School may become members of the Dialectic and Philanthropic Literary Societies, where they may take part in or witness debates of a high order and train themselves in parliamentary law.

As students of the University they enjoy all the privileges of the University library, the University gymnasium, and the organizations of the University generally, literary, social, and athletic.

THE LAW LIBRARY

A law library of about six thousand volumes is a part of the equipment of the Law School, and is housed in the Law building. The library stands to the Law School in the same relation that the laboratory stands to the Schools of Science. Constant use of the library is free to the students under reasonable regulations.

* Omitted in alternate years.

SUMMER LAW SCHOOL

A summer course in law is offered, beginning the day after Commencement and continuing to the end of the week preceding the Supreme Court examination for admission to the Bar in August. It is intended to provide a review of the course required by the Supreme Court of the State for applicants for license.

SESSION

The term for the summer of 1921 begins Thursday, June 16, and ends Friday, August 19, three days prior to the examination before the Supreme Court for admission to the Bar of North Carolina.

LECTURES AND RECITATIONS

At this session two daily lectures and recitations of one hour and a half each will be held by professors of the Law Faculty and competent instructors. In addition there will be frequent quizzes. The two courses offered are intended to cover the requirements for reading prescribed, given below, in the rules of the Supreme Court of North Carolina. The instruction is conducted by means of text-books, lectures, leading cases and quizzes.

An outline of the work and of the time assigned to the various subjects is approximately as follows:

Domestic Relations (6 lectures); Contracts and related topics (18 lectures); Torts and related topics (10 lectures); Corporations (8 lectures); Evidence (6 lectures); Pleading and The Code (10 lectures); Criminal Law (6 lectures); Property real and personal (22 lectures); Executors and Administrators (6 lectures); Equity (10 lectures); Constitutional Law (9 lectures); Legal Ethics (1 lecture).

The text-books used will be, as far as possible, those used at the regular session of the school, but any standard text-book on any of these subjects will be accepted.

EXAMINATIONS

No entrance examination is required; but each student must satisfy the faculty that he has sufficient general education to enable him to take the course with profit to himself. Examina-

tions are required as each subject is completed, and at the end of the term certificates to that effect are issued to such students as have passed with credit all examinations in both courses. These certificates will not entitle the recipients to any credit in the work of the regular school.

FEES AND EXPENSES

Tuition for term.....$30.00
Registration and Incidental Fees..... 5.00

The above mentioned fees cover privileges of the University library, gymnasium, and baths. Board in the village, with room, will cost from $25.00 to $37.50 a month; without room, from $20.00 to $30.00.

For further information address the President of the University or the Dean of the School of Law, Chapel, Hill, N. C.

RULES OF THE SUPREME COURT OF NORTH CAROLINA AS TO ADMISSION TO THE BAR

1. Applicants for license to practice law will be examined on the last Monday in January and the Monday preceding the last Monday in August of each year, and at no other time. Examination will be in writing.

2. Applicants must have attained the age of twenty-one years and must have studied:

Ewell's Essentials, 3 volumes; Clark's Code of Civil Procedure; Revisal of 1905; Constitution of North Carolina; Constitution of the United States; Creasy's English Constitution; Sharswood's Legal Ethics; Sheppard's Constitutional Text Book; Cooley's Principles of Constitutional Law (or their equivalents). Also some approved text-book on each of the following subjects: Agency, Bailments, Carriers, Corporations, Equity, Executors, Negotiable Instruments, Partnership, and Sales.

Applicants must have read law for two years at least, and shall file with the clerk a certificate of good moral character, signed by two members of the bar who are practicing attorneys of this Court, and also a certificate of the Dean of a Law School or a member of the bar of this Court, that the applicant has read law under his instruction, or to his knowledge or satisfaction, for two years, and upon examination by such instructor has been found competent and proficient in said course. Such certificate, while indispensable, will of course not be conclusive evidence of pro-

ficiency. An applicant from another State can file a certificate of good moral character signed by any State officer of the State from which he comes.

If the applicant has obtained license to practice law in another State, in lieu of the certificate of two years reading and proficiency he can file (with leave to withdraw) his law license issued by said State.

3. Each applicant shall deposit with the clerk a sum of money sufficient to pay the license fee before he shall be examined, and if upon examination he shall fail to entitle himself to receive a license, the money will be returned to him. The amount required is $23.50, twenty dollars of which is the tax prescribed by statute, $1.50 registration fee, and $2 due printers for the parchment upon which certificates of license are issued.

The above requirements apply also to lawyers from other States wishing to locate and engage in the practice here. No *formal application* is required and no application blanks are used. The applicant may comply with above requirements at any time by Friday preceding day of examination, either by mail or in person.

THE SCHOOL OF MEDICINE

FACULTY

Harry Woodburn Chase, Ph.D., *President.*
Isaac Hall Manning, M.D., *Dean.*

Charles Staples Mangum, A.B., M.D., *Professor of Anatomy.*
Isaac Hall Manning, M.D., *Professor of Physiology.*
William deBerniere MacNider, M.D., *Kenan Professor of Pharmacology.*
James Bell Bullitt, A.M., M.D., *Professor of Pathology.*
Robert Baker Lawson, M.D., *Associate Professor of Anatomy.*
Wesley Critz George, A.B., Ph.D., *Associate Professor of Histology and Embryology.*
————————, *Associate Professor of Pathology.*
Calvert Rogers Toy, A.B., *Assistant in Pathology.*
Sellers Mark Crisp, A.B., *Assistant in Bacteriology.*
Alan Ramseur Anderson, A.B., A.M., *Assistant in Pharmacology.*
Frederick Philips Brooks, *Assistant in Physiological Chemistry.*
Alvin Sawyer Wheeler, Ph.D., *Professor of Organic Chemistry.*
John Grover Beard, Ph.G., *Professor of Pharmacy.*
Barnette Naiman, *Assistant in Organic Chemistry.*
Robert Odus Deitz, *Assistant in Organic Chemistry.*

HISTORICAL SKETCH

The School of Medicine was established in 1879 under the direction of Dr. Thomas W. Harris. A course in theoretical and practical medicine, as was the custom at the time, was offered, but this plant was found impracticable and was abandoned in 1886. In 1890, however, a more orderly and logical arrangement of the subjects of the medical course had begun, and it became possible for a university, without clinical facilities, to offer instruction in the elementary subjects. Dr. Richard H. Whitehead was then elected Professor of Anatomy, and under his guidance the School was re-opened and has continued without interruption. In 1900, the medical course having been extended in the better class of schools to four years, the subjects of the first two years

were offered at the University. In 1902 a Clinical Department was established at Raleigh, but after several years of unsuccessful effort to provide for its proper support, it was abandoned. In 1908 the School was admitted to membership in the Association of American Medical Colleges.

REQUIREMENTS FOR ADMISSION

See page 65.

EXPENSES

See page 67.

COURSES OFFERED

The following courses are offered:

1. A Premedical Course of Two College Years. This course is arranged to provide the subjects and number of hours required for admission by a large number of medical schools. It is offered as a guide to those students beginning a preparation for the study of medicine who are unwilling or unable to take a more extensive collegiate course. See page 129.

2. A Combined Course Leading to the Degree of Bachelor of Science. This is a combination of a course of three collegiate years including the subjects most fundamental in the preparation for the study of Medicine and the medical course of two years, on the completion of which the degree of Bachelor of Science is granted. The student may, therefore, obtain a collegiate degree and the degree of Doctor of Medicine in seven years. It is recommended to those who find it impracticable to spend four years in collegiate work. See page 127.

3. The Medical Course. The course leading to the degree of Doctor of Medicine consists regularly of four years in strictly medical subjects. The subjects are arranged naturally into two main groups: the so-called Laboratory and Clinical groups, and two years are given to each group. The medical course offered includes the subjects of the first group and occupies a period of two years. On completing this course, the student is prepared to begin the study of the clinical subjects, and may enter the third year in other medical schools. Full credit is allowed in practically all medical schools.

THE MEDICAL COURSE

First Year

Biological Chemistry: Six hours weekly, first and second quarter.

Toxicology: Six hours weekly, third quarter.

Histology: Fifteen hours weekly, first quarter.

Osteology and Arthrology: Six hours weekly, first quarter.

Gross Anatomy: Thirty hours weekly, second quarter.

Neurology: Twelve hours weekly, third quarter.

Embryology: Three hours weekly, first and third quarters.

Applied Anatomy: Six hours weekly, third quarter.

Pharmacy: Six hours weekly, third quarter.

Second Year

Physiology: Six hours weekly, first half; nine hours weekly, second half.

Physiological Chemistry: Six hours weekly, first half.

Bacteriology: Nine hours weekly, first half.

Pathology: Ten hours weekly, first half; thirteen hours weekly, second half.

Pharmacology: Three hours weekly, first half; ten hours weekly, second half.

Minor Surgery and Physical Diagnosis: Four hours weekly, second half.

Hygiene: One hour weekly, second half.

Summary of First and Second Years

Subjects	*Hours*
Chemistry (Biological)	180
Anatomy	780
Physiology	350
Bacteriology	135
Pathology	366
Pharmacology	210
Pharmacy	90
Minor Surgery and Physical Diagnosis	60
Hygiene	15

EXAMINATIONS

Regular examinations on the first year subjects will be held during the examination periods of the College of Liberal Arts at the close of each quarter. In the second year the examinations will be held at mid-term, and at the close of the year. Special examinations for the removal of conditions will be allowed during the week preceding the close of the third quarter and during registration week in September.

An examination will not be allowed a student who is charged with ten per cent of unexcused absences, or with absences amounting to twenty per cent of the total number of hours assigned the subject.

PROMOTIONS

If a student makes a grade of six (6), or its equivalent, or fails on a second examination in any subject, he will be required to repeat the subject with the succeeding class. If a first year student fails on two subjects he will not be registered at the next session as a second year student, but as a special student, and he will be required to repeat all subjects of the first year in which his work has been unsatisfactory. He will be allowed to take only such subjects of the second year as will not conflict with such subjects of the first year as he may be repeating.

If a second year student makes a grade of five on any subject he will be allowed a second examination during the regular period for the removal of conditions in September. If he makes a grade of six (6) on one of the major subjects, or a grade of five on two of the major subjects he will not be recommended for admission to the third year of any medical school. He may be readmitted to the succeeding second year class provided there is a vacancy and there is, in the judgment of the medical faculty, a reasonable hope of his doing creditable work.

A certificate will be granted to a student who completes satisfactorily the required preliminary work and the medical course. In the event of a failure to complete the work a statement indicating the subjects completed will be given. Credits will not be allowed for attendance only.

LABORATORIES

For description of the medical laboratories see page 45.

SCHOLARSHIPS

The Wood Scholarship. (Established in 1895.) Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her husband, the late Dr. Thomas Fanning Wood, a scholarship covering the tuition and fees.

COURSES OF INSTRUCTION

Chemistry

71. ORGANIC CHEMISTRY.

Professor Wheeler and Messrs. Naiman, Deitz, and Brooks. *Six hours a week. Fall Quarter. Laboratory fee, $7.00*

Prerequisite, Chemistry 70.
Carbocyclic Series, a continuation of the organic chemistry of the premedical course: Lectures and Laboratory work.

72. BIOLOGICAL CHEMISTRY.

Professor Wheeler and Messrs. Naiman, Deitz, and Brooks. *Six hours a week. Winter Quarter. Laboratory fee, $7.00*

Prerequisites, Chemistry 70-71.
A special study of fats, carbohydrates, and proteins. Lectures and laboratory work.

73. TOXICOLOGY.

Professor Wheeler and Messrs. Naiman, Deitz, and Brooks. *Six hours a week. Spring Quarter. Laboratory fee, $7.00*

Prerequisites, Chemistry 70-71.
The chemical behavior of poisons and their separation from foods and animal tissues.

Anatomy

The courses include gross and microscopic anatomy, embryology, the topography of the body, the application and relation of anatomy to medicine and surgery, and the anatomy of the Central Nervous system and the organs of Special Sense.

Ample facilities are offered to any who may desire to pursue advanced work in the field of Anatomy.

1. OSTEOLOGY AND ARTHROLOGY.

PROFESSOR MANGUM. *Six hours a week.*
Fall Quarter.

Detailed study of the skeleton, each student being provided with a complete set of disarticulated bones which he is required to demonstrate and draw.

The joints are studied from prepared specimens.

2. GROSS ANATOMY.

PROFESSOR MANGUM. *Thirty hours a week.*
Winter Quarter.

The student makes a complete dissection of the human body under the constant supervision and direction of an instructor, who insists upon the use of the texts, guides, and atlases, and holds practical examinations upon the cadaver. Laboratory talks, demonstrations, and conferences take the place of lectures.

Texts: Cunningham, Gray, Piersol.

3. GENERAL HISTOLOGY AND ORGANOLOGY.

PROFESSOR GEORGE. *Fifteen hours a week.*
Fall Quarter.

This course includes: (a) study of the fundamental tissues, followed by (b) the study of the microscopic structures of the various organs. Lectures, demonstrations, and laboratory.

Text: Lewis and Stöhr.

4. CYTOLOGY AND HISTOGENESIS.

PROFESSOR GEORGE.

Those who have completed course 2 or its equivalent will be offered an opportunity to pursue further work in Cytology and Histogenesis. Arrangement for this course may be made with the instructor.

5. EMBRYOLOGY.

PROFESSOR GEORGE. *Three hours a week—Fall Quarter.*
Six hours a week—Spring Quarter.

(a) Lectures and laboratory study of the early processes in the formation of the vertebrate body.

(b) Lectures, demonstrations, and laboratory study of mammalian embryos.

6. CENTRAL NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.

Professor Mangum. *Eight hours a week.*
Spring Quarter.

A special laboratory study of the gross and microscopic anatomy of the cord and encephalon. Each student is provided with numerous prepared dissections of the human brain and a series of sections through the cord of the brain stem, which he studies with the aid of a guide. A human brain is then given to each group of four men and by them dissected in order to correlate and systematize the work already done. A practical examination tests the student's ability to locate the various tracts and nuclei.

7. APPLIED ANATOMY.

Professor Lawson. *Nine hours a week.*
Spring Quarter.

Embraces the external markings and surface anatomy of the organs (viscera, vessels, nerves, etc.), their location and interrelationships; topographical landmarks (normal and abnormal); incisions to reach arteries and nerves; influence of muscles upon fractures and luxations; and many other practical facts which may serve as aids to diagnosis and treatment. Instruction is by lectures and demonstrations upon the cadaver. Special dissections, preparations, models, and numerous drawing by the students are used as aids in this course.

Text: Davis.

Pharmacy

PHARMACY FOR MEDICAL STUDENTS.

Professor Beard. *Six hours a week.*
Spring Quarter.

This course in pharmacy will consist of two lectures supplemented by two laboratory periods each week. Beginning with a consideration of the metric system as applied to writing prescriptions and preparing formulæ, the course will embrace successively, medical arithmetic, prescription writing, official galenical and magistral preparations with their doses, cellulose and its compounds, carbohydrates, coal and wood tar products, resins, gums, esters, volatile oils, alkaloids, animal drugs, and, lastly, solubility and incompatibility. The student will be required to make the preparations commonly prescribed, in order

that he may be acquainted with their nature and composition. In addition, he must demonstrate the various forms of incompatibility liable to occur in prescriptions.

Text-book: DeLorme's *Manual of Pharmacy for Physicians.*

PHYSICAL DIAGNOSIS.

Professor Lawson. *Six hours a week.*
Spring Term.

Lectures and Laboratory: A brief course in the methods of physical examination, largely of the normal person. As far as possible, abnormal heart and lung cases will be submitted for examination.

Text: DaCosta.

MINOR SURGERY.

Professor Lawson. *Six hours a week.*
Spring Term.

Lectures and Laboratory: The lecture course will cover the method of the treatment of wounds, the dislocations, fractures, and some of the more common surgical conditions. In the laboratory the student is taught bandaging, and will be given an opportunity to practice some of the amputations and resections of joints on the cadaver.

Text: Wharton.

Physiology

PHYSIOLOGY.

Professor Manning.

The course in Physiology is given in three parts, as follows:
1. General Physiology: a lecture course of five hours a week extending through the year; a brief account of cell physiology is followed by a detailed discussion of the facts and theories of Human Physiology; attention is called to the application of physiology in medical practice as far as possible.

Text: Howell.
2. Physiological Chemistry: a laboratory course of six hours a week during the fall term. The purely chemical aspects of Bio-chemistry are considered in the course in Organic Chemistry (Chem. 71-72) given in the first year. In the course in Physiological Chemistry a practical application of the principles of Bio-chemistry is made in the study of Human Physiology. The chemistry of digestion, of the secretions, of blood, and of the

urine is studied in detail, qualitatively and quantitatively, and such tissues are examined as will afford evidence of the course of metabolic processes. Laboratory Notes.

References: Matthews, Hawk.

3. Experimental Physiology: a laboratory course of five hours a week during the spring term. In this course the student studies the heart and neuro-muscular systems on the turtle and the frog; the circulatory, respiratory, and glandular systems on the mammal. In the former the class is divided into groups of two and in the latter into groups of four. Each group is supplied with mimeographed directions for the performance of each experiment and a full equipment of apparatus, and each student is required to keep a record of the observations, including tracings. References: Stewart, Porter, Hill, etc.

Materia Medica and Pharmacology

1. PHARMACOLOGY.

Professors MacNider, Beard, and Mr. Anderson. *Three hours a week—Fall Term. Fifteen hours a week—Spring Term.*

1. Materia Medica. The preliminary study of drugs is given as a part of the course in Pharmacy by Professor Beard throughout the spring term of the first year in medicine. The student is required to learn the various preparations of the more important drugs, their dose, and chemical incompatibilities. Each student makes representative preparations of the different drugs.

2. Pharmacology. The course in Pharmacology extends throughout the second year of the medical curriculum. The character of the work permits a division of the course into three parts: (a) A consideration of the ways in which drugs may affect the organism. This introduction embraces a discussion of the various physico-chemical forces influencing drug activity, and the modification of the action of these conditions in different pathological states of the organism, such, for instance, as febrile conditions and various metabolic disturbances. (b) A general study of the pharmacology of the important drugs. The drugs are considered in groups depending upon their predominant effect in the body. The student learns the preparation, their dose, physiological incompatibilities, and considers in detail the way in which the drugs act as pharmacological agents. The symptoms and treatment of poisoning are considered following the discussion of the pharmacology of the group. (c) A consideration of the

pharmacology of drugs in the pathological animal, with a discussion of the modification of drug activity in various pathological states. In conjunction with this study emphasis is given to the use of drugs as therapeutic agents and a study is made employing such remedies as are indicated in the form of a prescription. Students are required to write prescriptions, which are then subjected to the criticism of various members of the class and the instructor.

3. Pharmacodynamics. This part of the general course in pharmacology consists in a careful and accurate study of the action of practically all of the more important drugs on the lower animals. For this work, the higher animals, such as the cat and dog, are chiefly used. The class is divided into groups of two or four, and the experimental work is conducted by the student. Each student is required to hand in to the instructor at the completion of the course a laboratory notebook containing a detailed account of each experiment, an explanation of the results obtained, and the tracings made during the experiment. Oral and written recitations are frequently held.

Text: Cushny, *Pharmacology and Therapeutics.* Reference: Sollmann, *A Manual of Pharmacology;* Meyer and Gottlieb, *Pharmacology, Experimental and Clinical;* Jackson, *Experimental Pharmacology.*

2. ADVANCED PHARMACOLOGY.

Professor MacNider and
Mr. Anderson.

Two types of courses will be offered: (a) an experimental study of the action of various drugs upon the normal animal; (b) an experimental study of the action of various drugs and other agents upon the pathological animal.

Bacteriology and Pathology

BACTERIOLOGY.

Professor Bullitt and — *Fall Term.*
Messrs. Toy and Crisp. — *Nine hours a week.*

The first four to six weeks are devoted to the fundamental principles of bacteriology. The student prepares the various culture media in common use, practices the more useful methods of staining, cultivates (from stock cultures) and describes several of the saprophytic, non-pathogenic forms, and isolates from pure culture, identifies and describes several organisms from air,

water, earth or feces. The rest of the course is devoted to pathogenic bacteria. The lectures cover all the more important disease-producing organisms, while in the laboratory the student cultivates and studies several members of each group that may be readily grown. Numerous inoculation experiments are made and through tissues from these autopsies the attempt is made to co-ordinate the course in Bacteriology with that in Pathology. In the latter part of the course a brief consideration is given to the examination of water and milk.

Texts: Hiss and Zinsser, Hineman's *Laboratory Guide.*

PATHOLOGY.

Professor Bullitt and — *Ten hours a week—Fall Term.*
Messrs. Toy and Crisp. — *Thirteen hours a week—Spring Term.*

This course embraces a consideration of General and Special Pathology from the chemical and physiological as well as the morphological aspects. Lectures and recitations are combined with laboratory work in a study of both gross and microscopical preparations.

In this work carefully selected loan sections form the basis for the study, but especial attention is paid to the experimental production, in laboratory animals, of the various common lesions due to mechanical, chemical, and bacterial agents. Under the guidance of the instructor the student produces these lesions and prepares his own specimens therefrom.

Text: MacCallum, Mallory.

HYGIENE.

Professor Bullitt.

A short course in the elementary principles of Hygiene and Sanitation.

Text: Rosenau.

SCHEDULE OF RECITATIONS

FIRST YEAR

FIRST QUARTER	Anatomy 8:30 Every day	Histology 9:45-12:45 Every day except Sat.	Embryology 9:45-12:45 Sat.	Biochem. 2:00-4:00 Mon., Wed. 2:00-3:00 Tues., Thurs.	
SECOND QUARTER	Anatomy 8:30-12:45 Every day	Biochem. 2:00-4:00 Mon., Wed. 2:00-3:00 Tues., Thurs.			
THIRD QUARTER	Neurology 9:45-12:45 Mon., Fri. 2:00-4:00 Fri.	Embryology 9:45-12:45 Wed.	Applied Anat. 8:30 Every day 9:45-12:45 Sat.	Toxicology 2:00-4:00 Mon., Wed. 2:00-3:00 Tues., Thurs.	Pharmacy 9:45-12:45 Tues., Thurs.

SECOND YEAR

FIRST HALF	Physiology 8:30 Every day	Physiological Chem. 2:00-4:00 Mon., Wed., Fri.	Bacteriology 9:45-12:45 Tues.,Thurs.,Sat.	Pathology 10:45-12:45 Mon., Wed., Fri. 2:00-4:00 Tues., Thurs.	Pharmacology 9:45 Mon., Wed., Fri.
SECOND HALF	Physiology 9:45 Mon., Tues., Wed., Thurs. 10:45-12:45 2:00-4:00 Mon., Fri.	Pathology 10:45-12:45 Tues.,Wed.,Thurs. 8:30-12:45 Sat. 2:00-4:00 Wed.	Pharmacology 8:30 Every day except Sat. 10:45-12:45, 2:00-4:00 Mon., Fri.	Minor Surgery Physical Diag. 2:00-4:00 Tues., Thurs.	Hygiene 9:45 Fri.

THE SCHOOL OF PHARMACY

FACULTY

Harry Woodburn Chase, Ph.D., *President.*
Edward Vernon Howell, A.B., Ph.G., *Dean.*
John Grover Beard, Ph.G., *Secretary.*

Edward Vernon Howell, A.B., Ph.G., *Professor of Pharmacy.*
John Grover Beard, Ph.G., *Professor of Pharmacy.*
John William Harrell, Jr., *Assistant in Pharmacy.*
James Louis Cobb, *Assistant in Pharmacy.*
Francis Preston Venable, Ph.D., D.Sc., LL.D., *Kenan Professor of Chemistry.*
William deBerniere MacNider, M.D., *Kenan Professor of Pharmacology.*
William Chambers Coker, Ph.D., *Kenan Professor of Botany.*
Alvin Sawyer Wheeler, Ph.D., *Professor of Organic Chemistry.*
James Munsie Bell, Ph.D., *Smith Professor of Chemistry.*
James Talmage Dobbins, Ph.D., *Associate Professor of Chemistry.*
Henry Roland Totten, A.M., *Instructor in Botany.*
Ira Welborn Smithey, M.S., *Instructor in Chemistry.*
Ira Vilas Giles, M.S., *Instructor in Chemistry.*
Haywood Maurice Taylor, B.S., *Instructor in Chemistry.*
Thomas Pugh Dawson, Ph.C., *Teaching Fellow in Chemistry.*
Richard Arthur Lineberry, B.S., *Teaching Fellow in Chemistry.*
Samuel Clement Smith, A.M., *Teaching Fellow in Chemistry.*
Abraham Maurice Wolfson, B.S., *Teaching Fellow in Chemistry.*
Robert Odus Deitz, Jr., *Assistant in Pharmacy.*
Barnette Naiman, *Assistant in Chemistry.*
Sihon Cicero Ogburn, Jr., *Assistant in Chemistry.*

HISTORICAL SKETCH

In 1880 Dr. Thomas W. Harris, of the Medical School of the University, was instrumental in establishing a Pharmacy School in connection with the School of Medicine. Dr. Harris was Professor of Anatomy, Materia Medica, and Pharmacy. The faculty of the School of Pharmacy consisted, in addition to Professor Harris, of Frederick W. Simonds, Professor of Botany and Physiology, and Francis P. Venable, Professor of Chemistry. The

course in pharmacy extended over two sessions of five months each, and led to the degree of Graduate in Pharmacy (Ph.G). The school was continued until the resignation of Dr. Harris in 1886, when it was abandoned completely. In the fall of 1889 the school was revived by Dr. Richard H. Whitehead, but again its career was cut short.

In March of 1897 the present School of Pharmacy was established, and Edward Vernon Howell, A.B., Wake Forest College, and Ph.G., Philadelphia College of Pharmacy, was elected Professor of Pharmacy and given charge of the school. The school occupied the ground floor of the new West Building, which had been provided with laboratories, lecture rooms, a herbarium, and a reading room. The first lectures, offered in September of 1897, pertained to practical and theoretical pharmacy, materia medica, physiology, physics, general and analytical chemistry, and botany. The course extends over two sessions of nine months each and leads, as did the courses in the initial school, to the degree of Graduate in Pharmacy (Ph.G.).

The school has gradually developed with respect to members of the faculty, equipment, apparatus, and attendance. In the summer of 1912 it was moved to Person Hall, a commodious, well-lighted, well-ventilated building containing ten rooms. The pharmaceutical library has been made valuable by many historical and modern books on pharmacy and its allied branches and by bound volumes of proceedings and journals, either given by friends or purchased by the University. In 1914 two new courses in pharmacy were added to the curriculum; one, a three-year course, leads to the degree of Doctor of Pharmacy (P.D.); the other, also a three-year course, leads to the degree of Pharmaceutical Chemist (Ph.C.).

REQUIREMENTS FOR ADMISSION

See page 66.

EXPENSES

See page 67.

REQUIREMENTS FOR GRADUATION

For the Degree of Graduate in Pharmacy

In order to be recommended for the degree of Graduate in Pharmacy the student must have completed the two-year course of study outlined on page 193. Work done in some other recognized school of pharmacy may be accepted for the first year of this course only.

He must obtain satisfactory marking in attendance, making a general average of 70 per cent in all courses, and submit a satisfactory thesis. The student must have had a practical experience of at least four years with some qualified pharmacist in a dispensing store. The two years spent in college count as two years practical experience. Students who have not had the full four years experience will be permitted to stand examinations for graduation, but their diplomas will be withheld until they shall have satisfied this requirement. Of the four years of experience required for license by the State Board of Pharmacy, the work done in the pharmaceutical laboratory will count month for month, up to twenty-four months.

For the Degree of Doctor of Pharmacy

The degree of Doctor of Pharmacy is conferred upon graduates only after another year of residence at the University. They must pursue advanced work as outlined on page 194 and present a thesis embodying the results of an original investigation.

For the Degree of Pharmaceutical Chemist

The requirements for the degree of Pharmaceutical Chemist are the same as those for the degree of Doctor of Pharmacy, with the exception that no practical experience in a drug store is necessary as a prerequisite.

COURSE LEADING TO THE DEGREE OF GRADUATE IN PHARMACY

FIRST YEAR.

Fall Quarter:

Pharmacy 1 (5)*
Pharmacy 4 (4)
Botany 3 (6)
Chemistry 1(6)

Winter Quarter:

Pharmacy 1 (5)
Pharmacy 4 (4)
Materia Medica 1 (5)
Chemistry 2 (6)

* Numbers in parenthesis indicate the hours devoted each week to the course and are to be understood as credit hours and not clock hours.

Spring Quarter:
Pharmacy 1 (5)*
Pharmacy 4 (2)
Materia Medica 1 (5)
State Board Work (5)

SECOND YEAR

Fall Quarter:
Pharmacy 2 (5)
Pharmacy 6 (3)
Chemistry 31 (6)
Materia Medica and Pharmacology (5)

Winter Quarter:
Pharmacy 2 (5)
Pharmacy 5 (8)
Materia Medica and Pharmacology (5)

Spring Quarter:
Pharmacy 2 (5)
Pharmacy 5 (4)
Chemistry 73 (3)
Research (5)

COURSE LEADING TO THE DEGREE OF DOCTOR OF PHARMACY OR PHARMACEUTICAL CHEMIST

THIRD YEAR

The work of the third year is largely chemical and is arranged for each student according to the particular field he expects to prepare for. However, the following courses are required:

Pharmacy 7
Chemistry 41-42
Chemistry 61-62
Chemistry 63-64.

COURSES OF INSTRUCTION

Pharmacy

1. THEORY AND PRACTICE OF PHARMACY.
PROFESSOR HOWELL. *Five hours a week.*
First year. *Fall, Winter and Spring Quarters.*
This course consists of lectures upon the following subjects, with practical demonstrations and the employment of proper apparatus whenever necessary: metrology, comminution, heat

* Numbers in parenthesis indicate the hours devoted each week to the course and are to be understood as credit hours and not clock hours.

evaporation, distillation, sublimation; fusion, calcination, granulation, oxidation, reduction, etc.; solution of solids, liquids, and gases; deliquescence, efflorescence, etc.; colation, filtration, decolorization, clarification, precipitation, etc.; macration, expression, infusion, decoction, etc.; percolation, and study of the following: waters, syrups, honeys, glycerites, mucilages, mixtures, spirits, elixirs, liniments, colodians, tinctures, wines, vinegars, and fluid extracts. Text: Remington, *Theory and Practice of Pharmacy.*

2. THEORY AND PRACTICE OF PHARMACY.

Professor Howell. *Five hours a week.*
Second year. *Fall, Winter and Spring Quarters.*

The official forms and preparations of drugs are taken up in detail. Beginning with the inorganic compounds, the salts are considered with regard to their commercial qualities and pharmaceutical uses and preparations. The organic compounds are studied, commencing with the salts of the organic acids and passing to the natural and organic compounds.

3. COMMERCIAL PHARMACY.

Professor Beard. *Two hours a week.*
Third year. *Fall Quarter.*

The need for commercial training in the practice of pharmacy is now thoroughly understood by every one. The School of Pharmacy has instituted a course in commercial pharmacy that is required of third-year students and is an elective for first- and second-year students. The fall term is devoted to the preliminary problems concerned in starting a drug business and getting it established upon a firm basis. Advertising and salesmanship are discussed at length. A series of eight lectures on the laws regulating the practice of pharmacy, sale of poisons, insurance, negotiable instruments, partnerships, and corporations will be given the students of this course by the Dean and Professors of the University School of Law.

The spring term is devoted to business arithmetic and correspondence and bookkeeping. Text-book: O'Connor's *Commercial Pharmacy.*

4. OPERATIVE PHARMACY. (LABORATORY).

Professor Beard and *Four hours a week.*
Messrs. Cobb and Harrell. *Fall and Winter Quarters.*
First year. *Laboratory fee, $5.00 a quarter.*

This course is designed to demonstrate the various operations outlined in Pharmacy 1 and to drill the student in the correct

preparation or manufacture of the galenicals and simple salts of Pharmacopœia. He is required to make, under the direction of the instructors, those preparations which enter into a prescription, and is taught the correct uses of the different apparatus required in a drug store. Text-book. Remington's *Theory and Practice of Pharmacy.*

5. OPERATIVE PHARMACY. (LABORATORY).

PROFESSOR BEARD.	*Six hours a week.*
Second year.	*Winter Quarter.*
	Laboratory fee, $10.00.

A continuation of course 4. A practical course which supplements the lectures in Pharmacy 2. Text-book: Remington's *Theory and Practice of Pharmacy* and Arny's *Principles of Pharmacy.*

6. URINARY ANALYSIS.

PROFESSOR BEARD.	*Three hours a week.*
Second year.	*Fall Quarter.*

By means of laboratory work, supplemented by lectures, the student is drilled in making thorough qualitative and quantitative analysis of urine. The phenomena of urine secretion and elimination and the physiological and pathological constituents of urine, with exhaustive tests for determining the presence or absence of these constituents, are fully dwelt upon. In addition, the student is taught to select and arrange the apparatus required to make urine analyses in the drug store. Text-book: Hawks' *Physiological Chemistry.*

7. MANUFACTURING PHARMACY.

PROFESSOR HOWELL.	*Five hours a week.*
	Fall and Winter Quarters.

This course for third-year students will consist of lectures, supplemented by laboratory work. The preparation of pharmaceutical products on a commercial scale will be given much consideration, as will the economics of manufacturing. The student will be acquainted with the sources, importations, and market prices of those agents which enter into remedies and pharmaceuticals.

Materia Medica and Pharmacology

1. MATERIA MEDICA.

Professor Beard. *Five hours a week.*
First year. *Winter and Spring Quarters.*

The individual drugs are considered from the standpoint of their origin, history, appearance, structure, active principles, chief medicinal properties, official preparations and doses. These drugs are grouped and studied according to the families to which they belong. Later they are classified into the therapeutic groups, based on their action, i. e., whether they are stimulants, alteratives, irritants, astringents, etc. The subject is amply illustrated from the large collection of the School, which includes all the drugs of the Pharmacopœia as well as many unofficial plant parts, by means of colored plates and pictures, and from the library, which contains a large number of valuable books on the subject. Text-book: Culbreth's *Materia Medica.*

2. MATERIA MEDICA AND PHARMACOLOGY.

Professor MacNider. *Lectures, three hours a week.*
Laboratory, four hours a week.
Fall and Winter Quarters.

The course is divided into two parts. The first part of the work is concerned with acquainting pharmacy students with more of the detail of physiology than they acquire in the ordinary high school course. Laboratory demonstrations are conducted by the instructor and the students demonstrate the more important normal physiological reactions on the lower animals, frogs, turtles, and cats. The second part of the course, and the major part is concerned with a study of how drugs act and the study of their action by the student on the lower animals. Prior to this work the pharmacy student has in the School of Pharmacy a course in Materia Medica proper, which is concerned with a study of the physical and chemical properties of drugs, their preparations, dosage, and a brief statement of their effect. The course in Pharmacology is intended to amplify and give in a more detailed fashion an understanding of the way in which the drug acts in normal and in toxic quantities.

Bacteriology

BACTERIOLOGY.

PROFESSOR BULLITT.

The student learns by practical experience the methods of cultivating, staining, and identifying the principal pathogenic bacteria, a few nonpathogenic and saprophytic forms are studied. The pathological significance of the various forms is explained by lectures, and the pathogenicity of some of the forms is determined by inoculation experiments performed by the class. At intervals during the course unknown organisms are given for identification. In addition to this, each student is required to isolate from the air, water, fecal matter, or pus, two organisms and determine their species. The latter part of the course is devoted to the bacteriological study of milk and water. Text: Jordan. Reference: Park and McFarland.

Botany

Botany 3. PHARMACEUTICAL BOTANY.

MR. TOTTEN. *Fall Quarter.*
Laboratory fee, $4.00

An introduction to the structure and classification of plants with special attention to the drug plants; localizing of the mucilages, gums, oils, resins, glucosides, alkaloids, etc. Lectures with laboratory and field work.

Chemistry

For all courses in Chemistry see page 253.

SCHOLARSHIPS

The North Carolina Pharmaceutical Association offers a scholarship of sixty dollars each year to a student who has completed with satisfaction the regular Junior course of study and who is recommended by the officers of the School.

PRIZES

THE BRADHAM PRIZE, offered by Mr. C. D. Bradham, of New Bern, N. C., will be given to the student making the highest general average during the two years of study.

The Beard Prize. To the student who makes the best general average during the first year of study and who passes the North Carolina Board of Pharmacy examination at the completion of the same year will be given a membership in the North Carolina Pharmaceutical Association.

Prizes will also be given:

1. For the best thesis.

2. For the best collection of native medicinal herbs.

3. For the best exhibit of chemical salts made by a second-year student.

4. For the best work in the recognition of materia medica specimens.

5. To the student recognizing the largest number of pharmaceutical preparations.

PHARMACEUTICAL LABORATORIES

See page 47.

ADMISSION OF WOMEN

The profession of pharmacy offers inducements to well-educated, energetic young women. The School of Pharmacy is open to women, who can enter, under the same conditions and with the same privileges as men.

WILLIAM SIMPSON PHARMACEUTICAL SOCIETY

This society was inaugurated by the Class of 1913. It is named in honor of the late William Simpson, of Raleigh, a pioneer druggist and teacher.

The society holds weekly meetings. At these meetings papers are read by the various student members, and discussions of the papers follow. At stated intervals, debates are held on subjects of particular interest to pharmacists.

THE SUMMER SCHOOL

FACULTY AND OFFICERS

1920

HARRY WOODBURN CHASE, Ph.D., *President.*
NATHAN WILSON WALKER, A.B., *Director.*
THOMAS JAMES WILSON, JR., Ph.D., *Registrar.*
MISS LOUISE COFFEY, *Secretary.*
CHARLES THOMAS WOOLLEN, *Business Manager.*
JULIUS ALGERNON WARREN, *Treasurer.*
GEORGE PICKARD, *Superintendent of Grounds.*
P. L. BURCH, *Superintendent of Buildings.*
LOUIS ROUND WILSON, Ph.D., *Librarian.*
ERIC A. ABERNETHY, M.D., *Physician to the Summer School.*
MRS. FLORA RICE, R.N., *Nurse in charge of Infirmary.*
MISS MOLLIE MCGUIRE, R.N., *Assistant Nurse.*
HENRY B. MARROW, A.B., *Secretary, Teachers' Bureau.*
ROBERT B. LAWSON, M.D., *Director of the Gymnasium.*
MISS ELSIE B. HELLER, *Secretary, Y. W. C. A.*
MISS MARY WEAVER, *Assistant Secretary, Y. W. C. A.*

Advisory Committee on Administration: Professors WALKER, NOBLE, HOWE, WILSON, T. J., WILLIAMS, L. A., PATTERSON, KNIGHT.

Faculty Committee on Advanced Standing: Professors WILSON, T. J., HOWE, DAGGETT.

Faculty Committee on Graduate School: Professors GREENLAW, RAPER, PIERSON, WILLIAMS, BELL.

Committee on Normal Courses and Demonstration School: Professors NOBLE, WILLIAMS, KNIGHT, Mr. MORRISON.

J. S. BABB.....HIGH SCHOOL PHYSICS

JAMES MUNSIE BELL, Ph.D.....CHEMISTRY
Professor of Physical Chemistry
University of North Carolina

JOHN JAY BLAIR, B.S.....DRAWING
Superintendent of Schools.
Wilmington, N. C.

EUGENE CUNNINGHAM BRANSON, A.M., Litt.D.,
RURAL ECONOMICS AND SOCIOLOGY
Kenan Professor of Rural Economics and Sociology
University of North Carolina

WILLIAM BREACH.....MUSIC
Supervisor of Music
High Schools of Rochester, N. Y.

LAUTREC CRANMER BROGDEN, M.A.....SCHOOL SUPERVISION
State Supervisor of Rural Elementary Schools

KENT JAMES BROWN, Ph.D.....GERMAN
Associate Professor German
University of North Carolina

A. H. BURNETT.....COMMUNITY ORGANIZATION
Director Public Health Federation, Cincinnati Social Unit

MRS. A. H. BURNETT, A.M.....CASE WORK
School of Public Welfare
University of North Carolina

MISS MARY V. CARNEY, M.A.....GRAMMAR SCHOOL HISTORY
Teacher of History
Central High School St. Paul, Minnesota

DUDLEY DEWITT CARROLL, A.M.....ECONOMICS
Professor of Economics and Acting Dean of the School of Commerce
University of North Carolina

HARRY CLARK, M.A., LL.D.....SECONDARY EDUCATION
Professor of Secondary Education
University of Tennessee

COLLIER COBB, A.M., D.Sc.....GEOLOGY AND GEOGRAPHY
Professor of Geology and Mineralogy
University of North Carolina

EUGENE JARVIS COLTRANE, A.B...ORANGE COUNTY SUMMER SCHOOL
Superintendent of Roanoke Rapids Schools

JOHN FREDERICK DASHIELL, Ph.D.....PSYCHOLOGY
Associate Professor of Psychology
University of North Carolina

MRS. LAURABELLE S. DIETRICK.....HIGH SCHOOL LATIN
Instructor in Columbia University, New York

MISS HELEN A. FIELD, B.S., M.A.....PRIMARY METHODS
Principal of Lower School
Oak Lane Day School, Philadelphia

MISS KATHRYN FARRA, A.B.....FAMILY CASE WORK
Supervisor of Field Work
Southern Division, American Red Cross

EARLY L. FOX, Ph.D.....HISTORY
Professor of History
Randolph-Macon College

MRS. MARIANNA COBB GAREISSEN.....PRIMARY METHODS
Specialist in Primary Methods

WESLEY CRITZ GEORGE, Ph.D.....ZOOLOGY
Associate Professor-Elect of Comparative Anatomy
University of North Carolina

MISS MARTHA I. GILTNER, R.N.....NURSING
Southern Division, American Red Cross
Atlanta, Georgia

MISS LETTIE GLASS.....DEMONSTRATION SCHOOL
Teacher in Chapel Hill School

MISS IDA GORDNER.....DEMONSTRATION SCHOOL
Teacher in Chapel Hill School

C. E. GREEN, A.M.....FRENCH AND SPANISH
Assistant Professor-Elect, Romance Languages
University of North Carolina

MISS MYRTLE GREEN,
HIGH SCHOOL MATHEMATICS AND SCIENCE
Teacher in Chapel Hill High School

MISS GRACE GRISWOLD.....DRAMATICS
Director of the Theatre Workshop
New York City

MISS MARY LEWIS HARRIS.....ORANGE COUNTY SUMMER SCHOOL
Teacher in Concord City Schools

GEORGE KENNETH GRANT HENRY, A.M., Ph.D.....LATIN
Assistant Professor of Latin
University of North Carolina

CLARENCE ADDISON HIBBARD, M.A.....ENGLISH
Assistant Professor of English
University of North Carolina

ALLAN WILSON HOBBS, Ph.D.....MATHEMATICS
Instructor in Mathematics
University of North Carolina

SAMUEL HUNTINGTON HOBBS, JR., A.B. A.M.,
RURAL ECONOMICS AND SOCIOLOGY
Assistant Professor of Rural Economics and Sociology
University of North Carolina

GEORGE HOWARD, JR., A.B.....ORANGE COUNTY SUMMER SCHOOL
Superintendent Edgecombe County Schools

GEORGE HOWE, Ph.D.....LATIN
Professor of the Latin Language and Literature
University of North Carolina

GEORGE W. HUNTER, Ph.D.....BIOLOGY
Professor of Biology
Carleton College, Minnesota

CHESLEY MASTIN HUTCHINGS, A.M.....FRENCH
Instructor in Romance Languages
University of North Carolina

MISS BESSIE IVES.....ORANGE COUNTY SUMMER SCHOOL

EDGAR W. KNIGHT, Ph.D.....EDUCATION
Professor of Rural Education
University of North Carolina

FREDERICK H. KOCH, A.M.....DRAMATIC LITERATURE
Professor of Dramatic Literature
University of North Carolina

MISS GRACE LAWRENCE .....DEMONSTRATION SCHOOL
Instructor and Assistant Dean
North Carolina College for Women

JOE BURTON LINKER, A.B.....MATHEMATICS
Instructor in Mathematics
University of North Carolina

HENRY BURWELL MARROW, A.B.....SCHOOL LAW
Superintendent of Schools
Smithfield, N. C.

MISS HENRIETTE MARIE MASSELING.....STORY-TELLING
Story Specialist
City Schools of Atlanta, Georgia

MISS MAUD P. MINISH.....HIGH SCHOOL HISTORY
Teacher in Biltmore High School

JAMES STRONG MOFFATT, JR., Ph.D.....ENGLISH
Instructor in English
University of North Carolina

FRED W. MORRISON, M.A.,
SUPERINTENDENT OF DEMONSTRATION SCHOOL
Superintendent of the Chapel Hill Graded School

HARRY G. NEWMAN, LL.B., Litt.B.,
JUVENILE DELINQUENCY AND PROBATION
North Carolina State Board of Public Welfare

MARCUS CICERO STEPHENS NOBLE.....PEDAGOGY
Professor of Pedagogy and Dean of the School of Education
University of North Carolina

STUART GRAYSON NOBLE, Ph.D.....EDUCATION
Professor of Education
Millsaps College, Jackson, Mississippi

MISS MARTHA OAKS, R.N.....FIELD WORK
Public Health Nurse
Chapel Hill

HOWARD W. ODUM, Ph.D.....SOCIOLOGY
Kenan Professor-Elect of Sociology
University of North Carolina

ANDREW HENRY PATTERSON, A.M.....PHYSICS
Professor of Physics
University of North Carolina

WILLIAM WHATLEY PIERSON, JR., Ph.D.....HISTORY
Assistant Professor of History
University of North Carolina

MISS MARY POORE.....WRITING
Supervisor of Writing in the City Schools of
Birmingham, Alabama

EDWIN DAVIS PUSEY, A.M, LL.D.....EDUCATION
Superintendent of City Schools
Durham, N. C.

E. OSCAR RANDOLPH, M.A., Litt.D.....GEOLOGY
Professor of Geology
State College, Texas

MISS FRIEDA RENTCHLER, B.S.....HOME ECONOMICS
Teacher of Home Economics
Chapel Hill High School

JAMES FINCH ROYSTER, Ph.D.....ENGLISH
Professor of English
University of Texas

MRS. MAMIE S. SEASE, A.B.....DRAWING
Supervisor of Drawing
Durham City Schools

H. M. SHARP.....PHYSICS
Instructor in Physics
University of North Carolina

SAMUEL LLOYD SHEEP, M.E.....ARITHMETIC
Superintendent of City Schools,
Elizabeth City, N. C.

MISS MARY A. SHEEHAN, A.B., B.Ed.....GRAMMAR SCHOOL ENGLISH
Teacher of English
Washington Junior High School, Rochester, N. Y.

MISS HELEN SHELL.....DEMONSTRATION SCHOOL
Teacher in Chapel Hill School

HERMAN HENRY STAAB, M.A.....Spanish
Assistant Professor of Romance Languages
University of North Carolina

MISS ELEANOR STRATTON.....High School English
Head of Department of English
Asheville City High School

WALTER DALLAM TOY, M.A.....German
Professor of the Germanic Languages and Literature
University of North Carolina

PAUL JOHN WEAVER, B.A.....Public School Music
Professor of Music
University of North Carolina

ALVIN SAWYER WHEELER, Ph.D.....Chemistry
Professor of Organic Chemistry
University of North Carolina

LESTER ALONZO WILLIAMS, Pd.D.....School Administration
Professor of School Administration
University of North Carolina

CALVIN U. WILLIAMS.....Orange County Summer School
Principal Poplar Branch High School

LOUIS ROUND WILSON, Ph.D.....Library Science
Professor of Library Science and Director of Extension
University of North Carolina

ARTHUR SIMEON WINSOR, A.M.....Mathematics
Assistant Professor of Mathematics
University of North Carolina

COURSES OF INSTRUCTION

The letter s, meaning summer, is prefixed to the numbers of courses to distinguish them from the numbers employed in the annual catalogue to designate the courses of the regular college year.

Courses numbered from s 1 to s 10 inclusive (except Chemistry s 1) count only for normal credit, such credit being indicated by the letter N.

Courses counting for college or university credit begin their numbering in each department with s 11. The letter C indicates that a course is of college grade and may be counted towards the bachelor's degree; the abbreviation Grad. indicates that a course so marked is of graduate grade and may be counted as a major towards the master's degree. One Summer School hour is counted as one-half a course for a term (quarter) of the regular session.

In most courses, it will be observed, the hours have not been scheduled. A daily schedule of recitations showing the hours and places of meeting will be given to each student on registering. Ask for this before you register.

Any changes in courses as announced will be published in a *Supplementary Announcement* prior to the opening of the Summer School. Ask for a copy of this before you register.

BIOLOGY

s 1. SOCIAL HYGIENE.

MR. HUNTER. Credit, 1 hour. N.
Five hours a week.

This course will discuss sociological conditions with which modern biological and medical science are interwoven. It includes a study of the part played by environmental factors in health and disease; industrial and occupational hygiene; communial hygiene; the relation of communial, state, and governmental agencies to human welfare; the war and social disease; sex hygiene, individual and communial; the need for individual action and co-operation with governmental agencies; how the college man and woman may help.

See also Education s 31, and Zoology s 20, s 21, and s 22.

CHEMISTRY

s A. HOUSEHOLD CHEMISTRY.

MR. BELL and MR. WHEELER. Credit, ½ Course. N.
Three hours a week.

An introductory course for students of home economics. Chemical problems which meet every housekeeper will be discussed. A treatment of some of the fundamental principles of chemistry will be followed by their application to fuels, water, foods, and textiles. Reference book: Snell—*Elementary Household Chemistry.*

s 1. GENERAL DESCRIPTIVE CHEMISTRY.

MR. BELL. Credit, 1 course. C.
Fourteen hours a week.

A study of the non-metallic elements and their compounds. This course is equivalent to the University course Chemistry 1. Daily lectures and weekly quiz. Laboratory work seven hours a week. Laboratory fee, $3.00.

s 31. QUALITATIVE ANALYSIS.

Mr. Wheeler. Credit, 1 course. C.
June 24-July 13. Six hours daily.

Lectures and laboratory work, including considerable practice with unknown mixtures. This course is the equivalent of Chemistry 31 in the University. Laboratory fee, $7.50.

s 44. QUANTITATIVE ANALYSIS.

Mr. Bell. Credit, 1 course. C.
July 14-August 5. Four hours daily.

A brief course in both gravimetric and volumetric methods of analysis. This course is the equivalent of Chemistry 44 in the University. Laboratory fee, $5.00.

s 70. ORGANIC CHEMISTRY.

Mr. Wheeler. Credit course. C.
Fourteen hours a week.

A course in elementary organic chemistry, covering only the aliphatic series. Lectures daily and three laboratory periods weekly. This course will give sufficient credit for entrance to Medical Schools. Laboratory fee, $6.00.

s 50. RESEARCH IN CHEMISTRY.

Mr. Bell, Mr. Venable, Mr. Wheeler. Credit course. C. or Grad.
Daily.

This course is offered to those advanced students who wish to continue their research studies in organic, inorganic or physical chemistry. The laboratory fee varies with the nature of the work.

s 63. THE IDENTIFICATION OF PURE ORGANIC COMPOUNDS.

Mr. Wheeler.

Laboratory work. Laboratory fee, $5.00.

Drawing

The courses in Drawing are planned with a view to giving teachers the knowledge and skill necessary to the teaching of school arts in rural and city schools. Plans by which the acquired knowledge can be adapted to the needs of different grades, and methods of presenting lessons in each grade will be carefully discussed and taught. The state-adopted course in drawing will be the basis of instruction though the work will not be confined wholly to this.

s 1. PRIMARY DIVISION.

MR. BLAIR and MRS. SEASE. Credit, 1 hour. N.
Five hours a week.

This course is designed for the first, second, and third grades. Its aim will be to give the student an acquaintance with the art elements and principles; suitability of various mediums (as crayola, cut paper, brush and ink, and water color) for the lower grades. Different methods of teaching such subjects as flowers, birds and animals, still life, lettering, illustration and simple construction problems in the lower grades.

SECTION I— 9:40—Mrs. Sease.
SECTION II—11:50—Mr. Blair.

s 2. GRAMMAR DIVISION.

MR. BLAIR and MRS. SEASE. Credit, 1 hour. N.
Five hours a week.

This course is designed for teachers of the fourth, fifth, sixth, and seventh grades.

SECTION I.— 8:50—Mr. Blair.
SECTION II—11:00—Mrs. Sease.

s 3. ADVANCED DIVISION.

MR. BLAIR. Credit, 1 hour. N.
Five hours a week.

This course is designed for former students who have attained the required degree of proficiency to pursue it with profit, and for supervisors of drawing.

Economics

s 11. GENERAL ECONOMICS.

MR. CARROLL. Credit, 1 hour. C.
Five hours a week.

This course covers the same ground as Economics I in the regular session, and is planned to give an understanding of the general principles underlying our complicated industrial life. An analysis is made of consumption, production and distribution. The forces which operate in markets to determine value and prices are studied, together with the principles involved in the regulation of prices.

s 12. ECONOMIC PROBLEMS. Credit, 1 hour. C.
Mr. Carroll. *Five hours a week.*

The subject matter is the same as that of Economics 2 in the regular session. A brief introduction is given to money, credit and banking; monopoly and business combinations; transportation; labor problems; and socialism. The object will be to give the student an understanding of the fundamental aspects of these subjects, sufficient for a comprehensive, well-organized basis for independent constructive thinking, or an adequate foundation for advanced study in the field of economics and industry. Prerequisite or co-requisite Economics I.

s 16. THEORIES OF ECONOMIC REFORM.
Mr. Carroll. Credit, 1 hour. C.
Five hours a week.

The object of this course will be to examine critically the most prominent of the current proposals of economic reform, such as socialism, Bolshevism, the single tax, profit sharing and labor copartnership, and industrial democracy. This course may be taken by those who wish neither college nor graduate credit.

Education

s 1. GENERAL METHODS IN PRIMARY SCHOOL SUBJECTS.
Credit, each section, 1 hour. N.
Each section, five hours a week.

This course will be given in three sections, as indicated below. The work of all three sections comprises a study of the subjects taught in the primary grades (1, 2, and 3). The content of the subjects, as well as methods of teaching them, will be given attention. The work will, however, be varied in each section to meet the needs of the students for whom the section is intended. Students should consult the Committee on Registration before deciding which of the sections to enter.

Section I. Miss Field.
This section is intended for teachers who have had little or no professional training. The work will be of an elementary nature. The subject matter for each grade will be outlined and effective methods for presenting the material will be given. The course will be developed in connection with observation in the Demonstration School.

SECTION II. MISS FIELD.

This section is intended for teachers in *country* schools who have had such professional training as is to be gained in teachers training schools, educational courses in normal schools or colleges, etc. This course will deal with methods of teaching various subjects in the primary grades, types of lessons; supplementary material; critical study of State adopted books; standards for each grade required by State course of study. Lectures, readings, observations, discussions.

SECTION III. MISS FIELD.

This section is intended primarily for high school graduates without experience and without professional training who are preparing to teach in the country schools. The work will be of an elementary nature. The subject matter for each grade will be outlined and effective methods for presenting the material will be given. The course will be developed in connection with observation in the Demonstration School.

s 2. SPECIAL METHODS AND REVIEW COURSES IN PRIMARY SCHOOL SUBJECTS.

NOTE:—See under the following departments:

ENGLISH, GEOGRAPHY, HISTORY, MATHEMATICS, AND OTHER COURSES LISTED UNDER THE HEAD OF EDUCATION BELOW.

s 3. GENERAL METHODS IN GRAMMAR SCHOOL SUBJECTS.

MR. PUSEY. Credit, each section, 1 hour. N.
Each section, five hours a week.

This course will follow Educational Bulletin VIII, *An Outline Course of Study for the Elementary Schools, Grades 4-7*, inclusive. The State-adopted text-books will be used. The study of methods will be based upon Rapeer's *How to Teach Elementary School Subjects*, and Leiper's *Language Work in Elementary Schools*. Observation in Demonstration School will be required. Parallel reading required.

s 4. SPECIAL METHODS AND REVIEW COURSES IN GRAMMAR SCHOOL SUBJECTS.

NOTE:—See under the following departments:

ENGLISH, GEOGRAPHY, HISTORY, MATHEMATICS, AND OTHER COURSES LISTED UNDER THE HEAD OF EDUCATION BELOW.

s 5. CHILD PSYCHOLOGY.

MR. STUART NOBLE. Credit, 1 hour. N.
Five hours a week.

See Education s 24. Those who do not desire college credit for this course will register for it as Education 55.

s 6. STORY TELLING.

MISS MASSELING. Credit, each section, 1 hour. N.
Each section, five hours a week.

The courses in this subject include a study of children's literature, lectures and instruction in the art of story telling, the use of the story in education, the selection and adaptation of stories and their correlation with other educational subjects. The work embraces intensive study in types of fairy and folk tales, myths, fables, nature stories, humorous tales, rhymes and poems for children, hero and patriotic stories, Bible stories, and the great national epics and their uses. Parallel readings will be assigned and much practice given in dramatizing and telling stories and correlating them with the formal work of the class room. Suggestive lists of stories for different grades have been prepared, and programs for special occasions have been arranged. This course will be taught in two general sections for primary and grammar grade teachers, with a special class for supervisors.

SECTION I. Story Telling in Primary Grades.
For teachers of first, second and third grades.

SECTION II. Story Telling in Grammar Grades.
For teachers of fourth, fifth, sixth and seventh grades.

SECTION III. Special class for supervisors.

s 7. PHYSICAL EDUCATION.

DR. LAWSON. Credit, each section, 1 hour. N.
Each section, five hours a week.

The courses in this subject embrace both formal and informal work. They consist of lectures on hygiene and sanitation and remediable defects of school children; formal drills arranged for graded classes; instruction in physical exercises, tactics, games, folk dancing, and playground activities. The active work will be supplemented by assigned readings. This course will be given in two general classes for primary and grammar grade teachers, with a special class for supervisors.

SECTION I. Physical Education in Primary Grades.
For teachers of first, second and thirds grades.

SECTION II. Physical Education for Grammar Grades.
For teachers of fourth, fifth, sixth and seventh grades.

SECTION III. Special class for supervisors.

s 8. NORTH CAROLINA SCHOOL LAW.

MR. MARROW. Credit, ½ hour. N.
Three hours a week.

This course is designed to give teachers an elementary knowledge of the North Carolina school law, and thus to enable them to meet the requirements of the State Board of Examiners and Institute Conductors. Those completing the course will be given credit in this subject toward any class of state certificate for which it is required. Lectures and assigned readings.

s 11. PRINCIPLES OF SECONDARY EDUCATION.

MR. CLARK. Credit, 1 hour. C.
Five hours a week.

This course will deal with the problems of organizing and administering the work in secondary schools. Some attention will be paid to the development of the American high school, with the emphasis placed upon the part played by the high school in developing the American idea of democracy. Inglis' *Principles of Secondary Education* will form the basis of this course.

s 12. HIGH SCHOOL METHODS.

MR. CLARK. Credit, 1 hour. C.
Five hours a week.

A study of the general methods of teaching best suited to high school pupils and a consideration of the particular aims, methods and outcomes of each of the various high school subjects. Text, lectures, parallel reading. Colvin's *Introduction to High School Teaching* will be used as the basis of this course.

s 13. CONSTRUCTIVE SUPERVISION.

MR. BROGDEN. Credit, 1 hour. C.
Five hours a week.

The purpose of this course is to meet the needs of rural school supervisors, supervising principals and superintendents in the supervision of classroom instruction. The members of the class are taken to the Demonstration School daily to observe teaching at first hand. They are led to recognize and to formulate basic principles of teaching as exemplified in the actual teaching of the various subjects in the course of study. They are led to reconstruct the teacher's method of procedure, to recognize and to formulate standards of worth by which to judge the quality of the teacher's instruction. Through assigned readings, re-

ports, and discussions the members of the class are brought into intimate acquaintance with some of the best professional literature on methods of teaching.

s 14. TYPES OF TEACHING.

Mr. Brogden. Credit, 1 hour. C.
Five hours a week.

In this course the class will observe and study at first hand in the Demonstration School the teaching of the characteristic lesson types, the Inductive, the Drill, the Review, and the lesson for Appreciation. Expert teachers in the Demonstration School will demonstrate the teaching of these lesson types using the subjects of literature, arithmetic and history.

s 15. CLASS MANAGEMENT.

Mr. Williams. Credit, 1 hour. C.
Five hours a week.

The course will consider the problems incident to the management of the class or grade as distinct from the management of a school. Such matters as lesson planning, discipline, class routine, daily schedules, etc., will be treated in the course. Textbook, lectures, readings, reports: Textbook: Sears—*Classroom Organization and Control.*

s 16. TESTS AND MEASUREMENTS.

Mr. Williams. Credit, 1 hour. C.
Five hours a week.

An introductory course which will serve to acquaint members of the class with the method of administering, scoring, tabulating and interpreting the results of several of the more commonly-used standard tests and scales for the measurement of classroom products. A brief discussion of intelligence tests, their use and value will be given. Lectures, laboratory work, reports.

s 17. HISTORY OF EDUCATION IN NORTH CAROLINA.

Mr. M. C. S. Noble. Credit, 1 hour. C.
Five hours a week.

The purpose and development of educational theories in North Carolina as seen in public, private, charity, and church schools. A comparative study of public education in North Carolina and other selected typical states of the American Union. Lectures, discussions, and assigned readings.

s 18. THE HISTORY OF ELEMENTARY EDUCATION.

MR. STUART NOBLE. Credit, 1 hour. C.
Five hours a week.

This course is intended for elementary school teachers of experience and training who desire to get a knowledge of the historic background of the work of the elementary school.

s 19. (See Introductory Psychology s 19.)

s 20. (Not offered in 1920.)

s 21. (See Social Psychology s 21.)

s 22. (Not offered in 1920.)

s 23. EDUCATIONAL PSYCHOLOGY: PSYCHOLOGY OF LEARNING.

MR. DASHIELL. Credit 1 hour. C. or Grad.
Five hours a week.

This course will include such particular topics as: the effects of practice and training on original capacities; methods of learning; transfer effects and interference of habits; effects of interests and incentives; individual differences in learning, etc. Prerequisite, Psychology s 19 or its equivalent. (Alternates with s 22.)

s 24. CHILD PSYCHOLOGY.

MR. STUART NOBLE. Credit, 1 hour. N. or C.
Five hours a week.

The physical, mental, social and moral development of the child; the stages of growth, point of view and reactions of the child; the instincts, play, imitations, constructiveness, acquisitiveness, etc, and their full significance in choosing subject-matter and methods for primary grades; arrested development; psychology of individual differences in children to reveal how education is conditioned upon the stages of individual development; flexible grading; backward and exceptional children; child study for parents and teachers; theories and methods of some of the great leaders in child study. Textbook (part time): Kirkpatrick's *Fundamentals of Child Study.*

s 25. THE JUNIOR HIGH SCHOOL.

MR. CLARK. Credit, 1 hour. C.
Five hours a week.

An analytical study of the theory and practice of the junior high school. This course will include an examination of the arguments for and against the junior high school movement;

aims, essentials, and purposes; organization, curriculum, buildings and equipment; vocational and educational guidance, and other phases of the movement. The theory of these points will be based upon the writings of the leaders in the movement; the courses of study and reports of schools having this type of school, together with other literature on the subject, will be carefully examined and will be used to show the tendency in current practice.

s 29. PUBLIC SCHOOL EDUCATION IN THE SOUTH.

MR. KNIGHT. Credit, 1 hour. C.
Five hours a week.

This course furnishes a historical survey of public school education in the Southern States with special attention to its more recent development in organization, administration, and supervision. Attention will also be given to a study of the educational reorganizations needed for the proper solution of present-day rural life problems. Text-book, lectures, investigations, and reports.

s 30. RURAL SCHOOL ORGANIZATION AND ADMINISTRATION.

MR. KNIGHT. Credit, 1 hour. C.
Five hours a week.

This course is planned to meet the needs of students preparing to become rural school teachers, principals, supervisors, and superintendents. It will give consideration to the organization, administration, and supervision of rural school education in the United States, with especial emphasis on the present condition in the South. The county as the unit of administration and support, federal aid and a national program for rural educational work, the application of the principles, agencies, and methods of supervision to the rural school will be studied. Text-book, lectures, special investigations and reports.

s 31. THE TEACHING OF GENERAL SCIENCE AND BIOLOGY IN THE HIGH SCHOOL.

MR. HUNTER. Credit, 1 hour. C.
Five hours a week.

The course will deal with the general science course as a type of reorganized science; its purposes, content, and organization; demonstration exercises, particularly in biology, for use in classroom, laboratory, and local environment; the use of representative general science topics in individual teaching situations; the general nature, content, and particular methods of general

science courses in progressive high schools; particular attention will be given to biology as a high school subject. Inspection trips will be made as time permits.

s 32. SCHOOL MANAGEMENT.

MR. PUSEY. Credit, 1 hour. C.
Five hours a week.

This course is designed primarily for principals of city schools, superintendents of town schools, and for teachers who wish to fit themselves for such positions. The emphasis will be laid on methods of inspecting, directing, and evaluating classroom work; the principal's relation to the pupils, teachers, school authorities, and the public. Perry's *The Management of a City School, Revised*, will be used as the basis of this course.

s 33. SUPERVISED STUDY.

MR. PUSEY. Credit, 1 hour. C.
Five hours a week.

This course will deal with the general principles of supervised study and special methods of supervising the study of various subjects. The following topics will be considered: the conception of the demand for supervised study; individual differences; proper conditions of and hindrances to studying; the organization of supervised study; methods of studying; supervising the study of English, history, civics, mathematics, the sciences, the languages, literature, the fine and practical arts; the effectiveness of supervised study. Hall Quest's *Supervised Study* will be used as the basis of this course.

s 34. PRINCIPLES OF PUBLIC SCHOOL ADMINISTRATION.

MR. WILLIAMS. Credit, 1 hour. C.
Five hours a week.

An introductory course dealing with a consideration of the general principles which underlie the administration of our public schools. Topics like the relation of government to public education, units of school administration, school finance, pupil costs, salary schedules, etc., will be treated. Particular attention will be given to the problems of city and large town superintendencies. Text-book, lectures, investigations, reports. Text-book: Cubberley's *Public School Administration.*

s 35. PROBLEMS IN ADMINISTRATION.

MR. WILLIAMS. Credit, 1 hour. Grad.
Four hours a week.

An advanced course conducted as a seminar in which some one or more specific problems of school administration will be taken up and treated in considerable detail. It is probable that for this year the problem of schoolhouse construction and equipment will be considered. Lectures, investigations, readings, and reports.

English

NOTE:—For courses in English counting for college entrance, see courses offered in the High School Department of the Demonstration School.

s 1. GRAMMAR AND COMPOSITION.

MR. MOFFATT. Credit, 1 hour. N.
Five hours a week.

A study of the principles of grammar and composition. Text-book assignments, class discussion of the content and method of teaching grammar and composition, and illustrative themes. Text-book: Robbins and Rowe, *Grammar and Composition.*

s 2. LANGUAGE WORK IN THE GRADES.

MISS SHEEHAN. Credit, 1 hour. N.
Five hours a week.

This course will deal primarily with the types of language work in the elementary grades and the choice of subject matter for the course of study incidentally it will deal with the methods of presentation. Lectures, assigned readings, lesson planning, and observation in the Demonstration School.

s 3. LITERATURE IN THE GRADES.

MISS SHEEHAN. Credit, 1 hour. N.
Five hours a week.

This course will deal primarily with the types of literature in the elementary grades and the choice of subject matter for the course of study; incidentally it will deal with the methods of presentation. Lectures, assigned readings, lesson planning, and observation in the Demonstration School.

s 4. THE TEACHING OF ENGLISH IN THE GRADES.

MISS SHEEHAN. Credit, 1 hour. N.
Five hours a week.

This course will deal primarily with the methods of teaching English in the elementary grades, including both language and literature. It is designed to supplement and to round out courses s 2 and s 3 above. Lectures, assigned readings, lesson planning, and observation in the Demonstration School.

s 5. DRAMATIZATION FOR CHILDREN.

MISS GRISWOLD. Credit, 1 hour. N.
Five hours a week.

Intended primarily as a normal course for teachers and designed to demonstrate the effective use of dramatics in the teaching of reading and literature in the elementary grades. The course will include a study of the following: Dramatic story-telling—biblical, classic, fantastic, modern, intimate; plots for impromptu acting—expressional dancing and pantomime; means of molding the literary taste of the child demonstrated by Dickens' Christmas Carol with prologue and chorus.

s 6. DRAMATIC INTERPRETATION AND PLAY PRODUCTION.

MISS GRISWOLD. Credit, 1 hour. N.
Five hours a week.

Designed primarily for advanced students especially interested in dramatics, and for teachers who have charge of training students in high school plays. Among other things the following will be considered: The selecting and casting of the play; the preparation of the prompt-book, the scenery and costume designs, and the light and property plots; the publicity and business management of the production; practical demonstration of the art of make-up.

s 11. THE TEACHING OF ENGLISH IN THE HIGH SCHOOL.

MR. ROYSTER and MR. HIBBARD. Credit. 1 hour. C.
Five Hours a week. 11:00.

A thorough study of some of the literature required for college entrance from the point of view of the teacher. The aim of the course is to widen the teacher's knowledge of each of the works studied and to furnish suggestions as to the most effective way of presenting them to high school students. The problem of composition teaching in the high school will receive some attention.

s 13. THE COMEDIES OF SHAKESPEARE.

MR. KOCH. Credit, 1 hour. C. or Grad.
Five hours a week. 8:50.

A study of Shakespeare's conception of comedy as revealed in the plays. All the comedies will be read and *Twelfth Night* and *The Tempest* will be studied intensively. A thesis will he required in this course if counted toward a Master's degree.

s 14. AMERICAN LITERATURE.

MR. HIBBARD. Credit, 1 hour. C. or Grad.
Five hours a week. 11:00.

A study of American literature, chiefly as representing American social and intellectual ideas. Stress will be placed upon the chief nineteenth century writers, and several of their more important individual works will be read and studied, together with illustrative selections covering the whole period. A thesis will be required in the course if counted toward a Master's degree.

s 15. ENGLISH COMPOSITION.

MR. MOFFATT. Full course. C.
Five hours a week.

This course will cover the same ground as the required Freshman English. It may be taken by students who have failed previously in English I, or by students who have not yet had it. Text-books, *Freshman English Notebook;* Foerster and Steadman, *Sentences and Thinking;* Foerster, *Chief American Prose Writers;* Law, *Selections from American Poetry;* Webster, *Secondary School Dictionary.*

s 18. THE RISE OF MODERN DEMOCRACY AS REFLECTED IN ENGLISH AND AMERICAN LITERATURE.

MR. MOFFATT. Credit, 1 hour. C.
Five hours a week.

This course deals with English political and social ideals as expressed in English and American literature from the time of Jefferson and Burns. The course is adapted to the needs of club leaders who expect to use the program "Our Heritage" issued by the Division of Extension of the University.

s 19. NEWS WRITING.

MR. HIBBARD. Credit, 1 hour. C.
Five hours a week.

A brief survey of the various types of newspaper stories together with some of the essentials of news editing. Daily papers will be studied in class and practice in the actual writing of news will be given. The course is especially designed for secondary school teachers who may wish to make use of journalistic forms in connection with theme work.

s 20. CHAUCER.

MR. ROYSTER. Credit, 1 hour. C. or Grad.
Five hours a week. 11:50.

Reading of the Prologue and selected *Canterbury Tales*, with some of the minor poems. Emphasis will be placed upon the reading of Chaucer as poetry, and upon an understanding of the poet as a man, a master of narrative, and a representative of his age, socially and intellectually. No knowledge of Anglo-Saxon or Middle English is required. (Open to graduates and to senior students.)

s 26. PLAY-WRITING

MR. KOCH. Credit, 1 hour. C. or Grad.
Five hours a week. 9:40.

A practical course in play-making designed for teachers as well as for students interested in the technique of play-writing. The method is frankly experimental. North Carolina folk materials will be utilized, and the one-act form will be the working basis of the course. The essentials of stagecraft—scenery, lighting, settings, costumes, make-up—as applied to school performances, will be illustrated by the presentation of a group of original folk plays by the Carolina Playmakers in The Play-House of Chapel Hill.

s 28. TENDENCIES IN RECENT ENGLISH AND AMERICAN POETRY.

MR. ROYSTER. Credit, 1 hour. C. or N.
Five hours a week.

A study of authors and verse in the present notable revival of interest in poetry as an art and as expressions of life. The basis of the reading will be *The New Poetry* (Monroe-Henderson), published by The Macmillan Company, but other useful books

for supplementary works are Williams, *Modern English Writers* (Knopf, 1919); Untermeyer, *The New Era of American Poetry* (Holt, 1919); and Amy Lowell, *Tendencies in Modern American Poetry* (Macmillan, 1917.)

French

s 1. ELEMENTARY COURSE.

Mr. Hutchings. Credit, 1 hour. E. or N.
Five hours a week, 9:40

This course is intended for those who have not previously studied French. It begins with a study of the essentials of French grammar, and the writings of simple English into French. Special stress is placed upon the acquisition of good pronounciation. The course corresponds as nearly as possible to French 1, as announced in the University catalogue, and when successfully pursued it will be accepted as part of the college entrance requirements in French. Text-books: Fraser and Squair, *Shorter French Course* (D. C. Heath & Co.) or Moore and Allin, *Elements of French* (Scott, Foresman & Co.); Aldrich and Foster, *French Reader* (Ginn & Co).

s 2. ELEMENTARY COURSE.

Mr. Hutchings. Credit, 1 hour. E. or N.
Five hours a week. 8:50.

Continuation of Course s 1. The study of the principles of French grammar is continued, and also the writing of English into French. The reading of modern French prose. This course corresponds as nearly as possible to French 2, as announced in the University catalogue, and when successfully pursued it will be accepted as part of the college entrance requirements in French. Text-books: Fraser and Squair, *Shorter French Course* (D. C. Heath & Co.); Aldrich and Foster, *French Reader* (Ginn & Co.); Monvert, *La Belle France* (Allyn & Bacon); Labiche, *Le Voyage de M. Perrichon* (Henry Holt & Co.)

s 11. ADVANCED COURSE. Credit, 1 hour. C.

Mr. Staab. *Five hours a week. 11:00.*

This course presupposes one year's successful study of College French. It will include a review of the principles of French grammar, with practical composition, and the reading of modern French literature. Pronunciation and dictation will receive especial attention. The course corresponds as nearly as pos-

sible to French 3, as announced in the University catalogue, and when successfully pursued it will be accepted as part credit for that course. Text-books: Fraser and Squair—*Shorter French Course* (D. C. Heath & Co.), and other texts.

s 12. ADVANCED COURSE.

MR. HUTCHINGS. Credit, 1 hour. C.
Five hours a week. 11:50.

Continuation of Course s 11. The study of the principles of French grammar, with composition and dictation, will be continued, and also reading of modern French literature. This course corresponds as nearly as possible to French 4, as announced in the University catalogue, and when successfully pursued it will be accepted as part credit for that course. Text-books: Fraser and Squair, *Shorter French Course* (D. C. Heath & Co.), and other texts.

s 13. THE TEACHING OF FRENCH IN THE HIGH SCHOOL.

MR. WATERHOUSE. Credit, 1 hour. C.
Five hours a week. 11:00.

This course consists of a study of the French vowel and consonant sounds, by means of the phonetic method, and selections of French prose are written in phonetic transcription. An attempt is made, by frequent dictation, to train the ear to recognize French sounds. Discussion of teachers' problems. Outside reading with written tests. Text-books: Nitze and Wilkins, *A Handbook of French Phonetics* (Henry Holt & Co.), and other texts.

s 14. FRENCH CONVERSATION AND COMPOSITION.

MR. WATERHOUSE. Credit, 1 hour. C.
Five hours a week. 9:40.

The object of this course is to give an opportunity of hearing idiomatic French spoken and of acquiring facility in the use of the language. Topics of general interest discussed; practice also in writing French. This course is open to those who have passed French 3-4 of the University curriculum or French s 11 and French s 12 with a grade not lower than 3.

Geology and Geography

s 1. ELEMENTARY GEOGRAPHY.

MISS CARNEY.

A review course in geography, with special attention to local or home geography and projects suitable for primary and inter-

mediate grades. Incidental discussion of methods of teaching geography.

s 2. THE TEACHING OF GEOGRAPHY.

MR. M. C. S. NOBLE. Credit, 1 hour. N.
Five hours a week.

This is a course in the teaching of geography in the grammar grades. One purpose of the course will be to show how to observe the influence of geographic laws while teaching local, state and national geography. Special attention will be given to the collection of material for use in reinforcing the subject-matter of the text-books. Lectures, assigned work, parallel readings, the preparation of lesson plans, etc.

s 11. INTRODUCTORY GEOLOGY.

MR. COBB. Credit, 1½ hours. C.
Lectures five hours a week.

Materials of the earth and the agencies affecting them; processes and their results as a key to the interpretation of the earth's history, with special reference to that of North Carolina. The origin, classification, conservation, and uses of the economic minerals, rocks, soils, etc., of the State and their importance to man. Field and laboratory work. Text-book: Cleland, *Introductory Geology.* Laboratory fee, $1.00.

s 12. ELEMENTARY MINERALOGY.

MR. RANDOLPH. Credit, 1½ hours. C.
Ten hours a week.

Occurrence, conservation, and uses of the common economic minerals, and rocks; their properties and identification. Field and laboratory work. The equivalent of Geology 3. Laboratory fee, $5.00.

NOTE:—Will be given if applied for by as many as ten students.

s 15. COMMERCIAL AND INDUSTRIAL GEOGRAPHY (WITH SPECIAL REFERENCE TO THE UNITED STATES).

MR. COBB. Credit, 1½ hours. C.
Lectures five hours a week.

This course covers the spring term of Advanced Physiography (Geology 25) as announced in the University catalogue. Illustrated lectures, laboratory work, and excursion trips. It discusses physiographic conditions as they are influencing the development of commerce and industry in the United States. Laboratory fee, $2.00.

s 17. HISTORICAL GEOLOGY.

MR. RANDOLPH. Credit, 1½ hours. C.
Lectures five hours a week.

Lectures with a study of rocks and fossils. The equivalent of Geology 2. Laboratory fee, $2.00.

NOTE:—Will be given if applied for by as many as ten students.

s 18. THE TEACHING OF GEOGRAPHY IN THE HIGH SCHOOL.

MR. COBB. Credit, 1 hour. C.
Five hours a week.

This course will be devoted to methods of teaching American Geography. Map-making and the use of maps, modeling in clay and the use of the sand-board in making relief maps, photographs and lantern slides, geographic influences in commerce and industry, methods of note-taking, the study of neighborhood geography, will be included in the discussion. Illustrated lectures, laboratory work and field work, text-books, reports and readings.

NOTE:—LECTURES ON GENERAL LATIN AMERICA.

A series of five illustrated lectures by Mr. Cobb is offered to the geography classes on *The Geography of Latin America.*

s 54. ADVANCED GEOLOGICAL FIELD WORK.

MR. COBB, MR. PROUTY, AND MR. RANDOLPH.
Credit 1½ hours. C.
Six days a week.

This course consists of six weeks of intensive field work in a small area and the working out of the geology of the region. The equivalent of Geology 54.

German

Each of the German courses outlined comprises the work of one-half of the corresponding college courses as given in one quarter. It is often desirable to complete by concentrated study the work of a whole quarter in a given course, and the Advisory Committee on Administration reserves the right on consultation with the German Department to make such an extension of hours in a given course as will permit the completion of a full quarter's work. To this end the right is also reserved to withdraw any course or courses for which the registration is small.

Students intending to take German courses are requested to inform the Director of Summer School of this fact in advance.

s 1. ELEMENTARY COURSE.

MR. TOY. Credit, 1 hour. E. or N.
Five hours a week.

This course is intended for those who have no previous aquaintance with the language and for those who are interested in the new methods of teaching beginners. There will be oral practice, and the inflections and the common laws of syntax will be learned practically. The class will make written summaries in German and translate simple German prose. Daily exercises in dictation. This course corresponds in part to one-quarter of German 1 as scheduled in the University catalogue. When successfully completed it will be accepted as part of the college entrance requirement in German. Text-books: Harris, *German Lessons* (Boston, D. C. Heath & Co.); Guerber, *Märchen un Erzählungen, I* (Boston, D. C. Heath & Co.).

s 2. ELEMENTARY COURSE.

MR. TOY. Credit, 1 hour. E. or N.
Five hours a week.

Practical exercises in grammar and translation of German prose, with dictation. Oral methods will be used, as far as possible, in continuation of the Course s 1. Text-books: the same as in Course s 1. This course corresponds in part to one quarter of German 2 as scheduled in the University catalogue. When successfully completed it will be accepted as part of the college entrance requirements in German.

s 11. ADVANCED COURSE.

MR. BROWN. Credit, 1 hour. C.
Five hours a week.

This course presupposes at least one year's successful study of German. There will be a review of important points of grammar, but attention will be directed chiefly to wide reading. Colloquial exercises, composition, and dictation will be a distinct feature of the course. Text-books: Vos, *Essentials of German*, fourth eddition (New York, Henry Holt & Co.); selected texts; Chiles, *German Prose Composition* (Boston, Ginn & Co.). This course corresponds in part to one quarter of German 3 as scheduled in the University catalogue. When successfully completed it will be accepted for credit as part of German 3.

s 12. ADVANCED COURSE.

MR. BROWN. Credit, 1 hour. C.
Five hours a week.

Continuation of the course s 11. There will be a review of important points of grammar not included in the previous course s 11; composition, dictation, and wide reading of German prose. This course corresponds in part to one quarter of German 4 as scheduled in the general catalogue. When successfully completed it will be accepted for credit as part of German 4. Text-books: Vos, *Essentials of German*, fourth edition (New York, Henry Holt & Co.); selected texts.

s 13. GERMAN LITERATURE.

MR. TOY. Credit, 1 hour. C. or Grad.
Five hours a week.

Lectures on German literature. Reading and interpretation of Schiller's *Wilhelm Tell*. This course corresponds in part to German 22 as scheduled in the general catalogue. When satisfactorily completed, it will be accepted as partial credit.

s 14. GERMAN LITERATURE.

MR. BROWN. Credit, 1 hour. C. or Grad.
Five hours a week.

German literature in the nineteenth century since Goethe's death. Lectures and reading of representative works. Corresponds in part to the college course German 25. When satisfactorily completed it will be accepted for partial credit.

s 17. THE TEACHING OF GERMAN IN THE HIGH SCHOOL.

MR. TOY. Credit, 1 hour. C.
Five times a week.

This course is offered to supplement the training of teachers of elementary German. There will be given a thorough exposition of the laws of pronunciation and practical illustration of the methods of treating elementary grammar, along with oral exercises and translation of texts adapted to high school work. The direct and other methods will be discussed in daily conferences. The course is not open to beginners.

NOTE:—Of the courses s 13 and s 15 only one will be given. The selection of the course to be given will be determined by the demand as shown in the registration.

History

Note:—For courses in History counting for college entrance, see courses offered in the High School Department of the Demonstration School.

s 1. A REVIEW COURSE IN HISTORY.

Miss Carney. Credit, 1 hour. N.
Five hours a week.

A review course in American history, with special emphasis on the economic development of the country. Incidental discussion of methods in teaching history in primary and intermediate grades.

s 2. THE TEACHING OF HISTORY IN THE GRADES.

Miss Carney. Credit, 1 hour. N.
Five hours a week.

This course will deal primarily with the methods of teaching history in the elementary grades, and secondarily with the choice of subject matter for the course of study. Lectures, assigned readings, lesson plans, and observation in the Demonstration School.

s 16. MODERN EUROPE.

Mr. Fox. Credit, 1 hour. C. or Grad.
Five hours a week.

A general course covering the history of Europe from the Congress of Vienna (1815) to the present time. Text-book: Hazen's *Europe Since 1815.*

s 17. CONTEMPORARY UNITED STATES HISTORY.

Mr. Fox. Credit, 1 hour. C.
Five hours a week.

A survey of development since 1876, with special reference to the rise of industrialism and the problems, sectional changes, political parties, political and constitutional reforms, and foreign relations within this period. Lectures, assigned readings, and reports.

s 26. THE TEACHING OF HISTORY IN THE HIGH SCHOOL.

Mr. Pierson. Credit, 1 hour. C.
Five hours a week.

This course in 1920 will be devoted chiefly to the study of methods of teaching Ancient history. Such topics will be considered as the use of maps; high school libraries and reference

reading; sources and documents; methods of note-taking; the value of Ancient history. The discussion of these and other related topics will be based upon illustrations taken from ancient history. Lectures, text-books, reports, and readings.

NOTE:—In 1921, American history will be the basis of the course.

s 27. COMPARATIVE GOVERNMENT.

MR. PIERSON. Credit, 1 hour. C.
Five hours a week.

A study will be made in this course of the government and the institution of democracy in Great Britain, the United States, and France; and attention will be given to the political changes affected by the war. Lectures, text-books, and readings.

s 29. MODERN IMPERIALISM AND WORLD POLITICS.

MR. PIERSON. Credit, 1 hour. C. or Grad.
Five hours a week.

A general course in which there will be treated the influence of imperialism upon international relations. The course will include a study of the expansion of Europe since 1870; the imperial systems of Great Britain, France, Germany, and Italy; the United States and Japan as world powers; economic factors in imperialism; and provisions and probable effects of the Peace Treaty. Lectures and readings.

s 30. To be announced. See Bulletin No. 7.

MR. FOX. Credit, 1 hour. C.
Five hours a week.

Home Economics

s 1. RED CROSS COURSE IN DIETETICS; AND CHILD NUTRITION.

Credit, 1 hour. N.
Five hours a week.

The first half of this course will follow the course in Dietetics outlined by the American Red Cross; the second half of the course will deal specifically with the problems of child nutrition. Lectures, laboratory, assigned readings.

s 2. ELEMENTARY COURSE IN COOKING.

MISS RENTCHLER. Credit, 1 hour. N.
Five hours a week.

This is an elementary course planned primarily for rural teachers. The work in cooking includes a study of the general

food principles and their place in the diet; the relation of the food principles to the digestion; the correlation of cooking with other studies in the rural school curriculum; working out the noonday lunch as a practical time for giving lessons in the rural school. Laboratory fee, $1.00.

s 3. DOMESTIC ART.

Miss Rentchler and Mrs. Sease. Credit, 1 hour. N. *Five hours a week.*

Elementary clothing and handwork; practice in the use of the sewing-machine and its attachments; hand- and machine-sewing applied to undergarments; darning, patching, and simple embroidery. Students provide materials.

s 4. RED CROSS COURSE IN HOME NURSING.

Miss Giltner. Credit, 1 hour. N. *Five hours a week.*

This course in Home Hygiene and Care of the Sick is planned by the American Red Cross, and it will be conducted in strict accordance with the requirements of the Red Cross officials by an instructor selected by these officials.

Note:—For courses in *Household Chemistry*, see Chemistry A.

Latin

Note:—For courses in Latin counting for college entrance see courses offered in the High School Department of the Demonstration School.

s 1. ELEMENTARY LATIN. A REVIEW COURSE.

Mr. Henry. Credit, 1 hour. N.

This course comprises a review of forms and syntactical constructions; selected portions of Cæsar's *Gallic War* will be carefully studied with especial attention to word order and syntax; some time will be spent on discussion of Roman politics in Cæsar's day.

s 4. VERGIL: A REVIEW COURSE.

Mr. Henry. Credit, 1 hour. N. *Five hours a week.*

The first six books of the *Aeneid*. This course aims to meet the needs of the high school teacher who wishes to become more familiar with the structure and technique of the *Aeneid*, as well as to gain greater ease in translation.

s 11. THE TEACHING OF LATIN IN THE HIGH SCHOOL.

MR. HOWE. Credit, 1 hour. C.
Five hours a week.

A course for teachers, based on the authors usually taught in the high school. The topics to be discussed will include: assignment of lessons, grammar, translation, vocabulary, use of outside material in the interpretation of the text, methods of recitation, etc.; lectures, assigned readings, reports and discussions. Text-books: Any standard editions of *Caesar*, *Cicero*, and *Vergil*.

s 15. SEMINAR COURSE.

MR. HOWE. Credit, 1 hour. C. or Grad.
Five hours a week.

The subject to be studied will be selected at the first meeting of the class. The selection is postponed until that time in order to meet the exact needs of the students who apply for it. Suggested topics are: Cicero's works apart from the orations; epistolary literature; satire; elegy, etc. Lectures and readings.

s 16. CLASSICAL DRAMA.

Not offered in 1920. Credit, 1 hour. C.

s 17. LATIN PROSE LITERATURE.

Credit, 1 hour. C.
Five hours a week.

This course is concerned mainly with the study of the epistolary and historical literature; reading of selected letters from Cicero and Pliny and of passages from Livy, Tacitus and other historians.

Library Science

s 11. THE USE OF BOOKS.

MR. WILSON. Credit, 1 hour. C. or Grad.
Five hours a week.

A course for college students, teachers, and librarians on the use of books. Instruction is given as to the kind of information specific reference books, dictionaries, and encyclopædias contain. Special emphasis is laid on methods of finding material for use in the preparation of themes, essays, debates, orations and of assisting others in finding material in school or public libraries for school use. Practice at the reference desk of the

University library and the preparation of an extension list of reading on some subject to be assigned will be required. Lectures, assigned readings, text-book.

Mathematics

s 1. REVIEW OF ARITHMETIC.

S. L. Sheep. Credit, 1 hour. N.
Five hours a week.

s 2. TEACHING OF ARITHMETIC IN ELEMENTARY SCHOOL.

M. C. S. Noble. Credit, 1 hour. N.
Five hours a week.

s 3. GEOMETRY FOR TEACHERS.

Mr. Hobbs. Credit, 1 hour. N.
Five hours a week.

The purpose of this course is to give teachers an opportunity to gain a wider knowledge of the field of Euclidian geometry than is possible in our high school classes. It will consist in a brief review of the methods of elementary geometry followed by an introduction to projective geometry. No preparation is presupposed beyond the usual high school courses in plane and solid geometry.

s 4. SOLID GEOMETRY.

Mr. Winsor. Credit, 1 hour. E. or N.
Five hours a week.

A regular course in solid geometry with emphasis upon applications. Text: *Solid Geometry*, Palmer and Taylor.

s 11. COLLEGE ALGEBRA.

Mr. Winsor. Credit, 1 hour. N. or C.
Five hours a week.

A course in algebra from the point of view of functions, including a study of the number system of algebra, the fundamental operations, progressions, functions of first, second and higher degrees; also exponential and logarithmic functions and determinants. If a sufficient number desire it this course will be given as a double course in order that it may be the equivalent of Mathematics 1 in the University catalogue.

s 13. PLANE TRIGONOMETRY.

MR. HOBBS. Credit, 1 hour. C.
Five hours a week.

In order to make this course the equivalent of the course in trigonometry given in the University (Mathematics 2) the daily assignments will be twice as long as those given in that course, hence it must be considered as the equivalent of two Summer School courses.

s 15. THE TEACHING OF MATHEMATICS IN THE HIGH SCHOOL.

MR. HOBBS. Credit, 1 hour. C.
Five hours a week.

For the first four weeks the class will make an outline and arrange the material for a text-book in algebra which might be used in the high school. The last two weeks will be spent in a study of the teaching of geometry in England, Germany and France, and a discussion of the work done by the committee on mathematical requirements.

s 16. ANALYTIC GEOMETRY.

MR. HOBBS. Credit, 1 hour. C.
Five hours a week.

This course is offered primarily for teachers of high school mathematics. The aim of the work is to co-ordinate algebra and geometry. Intelligent teaching of graphical algebra requires a knowledge of the work outlined in this course. The work will consist in the study of the co-ordinates, equations of loci, the straight line, the conic sections, and other curves. Text: Smith and Gale, *New Analytic Geometry.*

s 17. DIFFERENTIAL CALCULUS.

MR. WINSOR. Credit, 1 hour. C.
Five hours a week.

Classifications of functions, theory of limits, differentiation, application of the derivative in geometry, rates, and maxima and minima; series, expansions of functions, computation of logarithmic tables.

NOTE:—Courses s 16 and s 17 will be given provided they are applied for by six or more students.

Music

s 1. PUBLIC SCHOOL MUSIC METHODS.

MR. WEAVER. Credit, 1 hour. N.
Five hours a week.

For the teachers of music in the grades, especially those who have no assistance from supervisors or special teachers of music. Methods and materials will be outlined and demonstrated covering the work up to the high school.

s 2. COMMUNITY MUSIC.

MR. WEAVER. Credit, 1 hour. N.
Five hours a week.

For teachers, principals, superintendents and others interested in the community music movement and in correlating the music of the school with the music of the community. The history of the movement will be studied, its possibilities exemplified and methods and materials outlined.

s 3. APPRECIATION OF MUSIC.

MR. WEAVER. Credit, 1 hour. N.
Five hours a week.

For those who wish to learn how to listen to music with intelligent appreciation. A non-technical course for which no previous training or knowledge of the subject is required.

s 4. SIGHT-SINGING AND EAR-TRAINING.

MR. WEAVER. Credit, 1 hour. N.
Five hours a week.

For those wishing to learn to read vocal music from the printed page. The work of the class will be based on the needs of those who register.

If a sufficient number of students apply, the Department of Music will provide competent instruction in Piano, Voice, and Violin.

In addition to the foregoing courses, Community Sings, the Chorus, and the Orchestra will be conducted under the direction of the Department of Music.

s 5. VOICE.

MR. BREACH.

s 6. PIANO.

MR. BREACH.

THE SUMMER-SCHOOL CHORUS.

As in preceding years, a chorus of selected voices will be formed at the beginning of the session which will rehearse daily and will present, with the assistance of soloists, programs during the latter part of the term. The material to be studied will be announced later.

COMMUNITY SINGS.

The entire body of students and faculty and towns-people will join in Community Sings at regular intervals during the session. These sings will be held out-of-doors, and will be of recreational and inspirational character.

THE SUMMER-SCHOOL ORCHESTRA.

All students in the Summer School who play orchestral instruments are urged to bring them to Chapel Hill and to join a summer-school orchestra. Simple material will be studied. This work should be of especial interest to those who are working with school orchestras.

Physics

s 1. ELEMENTARY COURSE.

MR. SHARP. Credit, 1½ hours. E. or N.
Ten hours a week.

Five recitations and five laboratory periods per week. The course is designed for beginners and for teachers who wish a review of the subject, with some suggestions on teaching and on building apparatus. Millikan and Gale text will be used, and the laboratory manual of Millikan, Gale and Bishop.

NOTE:—A fee of $2.00 will be charged in this course if laboratory work is taken.

s 2. ASTRONOMY.

MR. PATTERSON. Credit, 1 hour. N.
Three times a week, M. W. F.

A brief course in descriptive astronomy, non-mathematical, including some work with the telescope. Fully illustrated with maps and lantern slides.

s 11. ADVANCED COURSE.

Mr. Patterson and Mr. Sharp. Credit, 2 hours. C. *Twelve hours a week.*

Mechanics of solids, liquids and gases; sound. Five lectures and seven laboratory hours a week. This course is the equivalent of one term of Physics 1-2 as scheduled in the general catalogue. Text-book: Kimball, *College Physics.*

s 12. ADVANCED COURSE.

Mr. Patterson and Mr. Sharp. Credit, 2 hours. C. *Fourteen hours a week.*

Heat, light, electricity and magetism. A continuation of Course s 11. Five lectures and nine laboratory hours a week. This course is the equivalent of the second term of Physics 1-2 as scheduled in the general catalogue.

Note:—A fee of $2.50 will be charged in each course if laboratory work is taken.

Psychology

Note:—Courses s 20 to s 28 inclusive (except s 24) may each be taken for graduate credit by special arrangement of work with the instructor.

s 19. INTRODUCTORY PSYCHOLOGY.

Mr. Dashiell. Credit, hour. C. *Five hours a week.*

A scientific study of human nature from the point of view of a modified behaviorism. Man is studied as a living organism, showing original and acquired tendencies that are subject to increasingly efficient conscious self-control, leading up to the development of a personality. This course, or its equivalent, is prerequisite to courses s 20, s 21, s 22, and s 23.

s 20. PSYCHOLOGY OF CHILDHOOD AND ADOLESCENCE.

Not offered in 1920. Credit, 1 hour. C. or Grad.

s 21. SOCIAL PSYCHOLOGY.

Mr. Dashiell. Credit, 1 hour. C. or Grad. *Five hours a week.*

A brief survey of the subject from two different points of view: analysis of the special factors in individual mentality, as in the development of Self; and analysis of the psychological fac-

tors involved in group phenomena. Attention also to be given to individual differences, leadership, race psychology, etc. Prerequisite, Psychology s 19 or its equivalent. (Alternates with s 20.)

s 22. EDUCATIONAL PSYCHOLOGY: GENERAL.

Not offered in 1920. Credit, 1 hour. C. or Grad.

s 23. EDUCATIONAL PSYCHOLOGY: PSYCHOLOGY OF LEARNING.

MR. DASHIELL. Credit, 1 hour. C. or Grad.
Five hours a week.

This course will include such particular topics as: the effects of practice and training on original capacities; methods of learning; transfer effects and interference of habits; effects of interests and incentives; individual differences in learning, etc. Prerequisite, Psychology s 19 or its equivalent. (Alternates with s 22.)

s 24. CHILD PSYCHOLOGY.

MR. STUART NOBLE. Credit, 1 hour. N. or C.
Five hours a week.

The physical, mental, social and moral development of the child; the stages of growth, point of view and reactions of the child; the instincts, play, imitation, constructiveness, acquisitiveness, etc., and their full significance in choosing subject-matter and methods for primary grades; arrested development; psychology of individual differences in children to reveal how education is conditioned upon the stages of individual development; flexible grading; backward and exceptional children; child study for parents and teachers; theories and methods of some of the great leaders in child study. Text-book (part time): Kirkpatrick's *Fundamentals of Child Study.*

Rural Economics and Sociology

s 11. RURAL SOCIAL PROBLEMS.

MR. BRANSON. Credit, 1 hour. C. or Grad.
Five hours a week.

1. Rural state and rural mindedness. Typical social areas: (a) the tidewater country, (b) the cotton and tobacco belt, (c) the Piedmont uplands, (d) the mountain counties. Common and distinguishing characteristics. (e) Our industrial area, where located, who so located, the outlook. 2. The cityward drift of

country populations; in the world at large, in North Carolina: (a) the fundamental cause, (b) specific propulsive causes, (c) consequences and conclusions. 3. Ill-balanced civilizations: England, New England, North Carolina and the South. 4. Town and country interdependencies. 5. The country-life problem: (a) what it is not and what it is, (b) country life advantages and disadvantages, (c) constructive aims, (d) leadership and the federation of country-life forces, (e) the technic of country leadership.

s 12. RURAL ECONOMICS.

Mr. Hobbs. Credit, 1 hour. C. or Grad.
Five hours a week.

A formal course in Rural Economics: a background for defining and interpreting the economic problems of country life in North Carolina and the South. Our agricultural resources, our farm systems, our rural life conditions, and our rural economic problems. (1) Historical sketch of modern agriculture, with special studies in developing Southern agriculture, (2) the economics of agriculture, (3) land, labor, and capital as factors in agricultural production and ways of economizing these factors, (4) the distribution of agricultural products and agricultural income, (5) farm tenantry—its origin, advantages, disadvantages, and remedies, (6) rural credits, (7) co-operation in farm enterprises and rural activities, (8) well-balanced farm systems.

s 13. LABORATORY COURSE IN RURAL SOCIAL PROBLEMS.

Mr. Branson and Mr. Hobbs. Credit, 1 hour. C. or Grad.
Five hours a week.

This course is open to students taking s 11 and s 12. The studies concern matters of state-wide importance. They cover rural, urban, and industrial problems, economic and social. The subjects and methods are indicated by the 351 studies already made by the Summer School and regular term students of the University during the last five years, and given to the public in part in various issues of the University News Letter, and the North Carolina Club Year Books, 1915-16, 1916-17, and 1917-18. Students from other states will be assigned to similar studies of their home state. The consultation hour is 4:30 o'clock daily; but the work can be done in the laboratory headquarters at any time suiting the convenience of the students enrolled.

Sociology

s 11. SOCIAL PROBLEMS.

MR. ODUM. Credit, 1 hour. C. or Grad.
Five hours a week.

Sociology applied and functioning in the life and labor of the people. Practical study of society and social progress, as found in problems of its institutions: home, school, church, government, industry, community. Special problems and social questions arising between employer and employee: of recreation, industry, labor, crime, vice, poverty, race; social work; education; and social progress.

Spanish

s 1. ELEMENTARY COURSE.

MR. STAAB. Credit, 1 hour. E. or N.
Five hours a week. 8:00.

This course is intended for those who have not previously studied Spanish. It consists of the study of Spanish grammar, the writing of simple English into Spanish, with frequent oral drills and dictation. Special attention given to pronunciation. The course corresponds as nearly as possible to Spanish I, as announced in the University catalogue, and when successfully pursued it will be accepted as part of the college entrance requirements in Spanish. Text-books: Crawford, *First Book in Spanish* (The Macmillan Co.); Pittaro, *A Spanish Reader* (D. C. Heath & Co.).

s 2. ELEMENTARY COURSE.

MR. STAAB. Credit, 1 hour. E. or N.
Five hours a week. 8:50.

Continuation of Course s 1. The study of the principles of Spanish grammar is continued, and also the writing of English into Spanish. The reading of simple Spanish prose. This course corresponds as nearly as possible to Spanish 2, as announced in the University catalogue, and when successfully pursued it will be accepted as part of the college entrance requirements in Spanish. Text-books: Crawford, *First Book in Spanish* (The Macmillan Co.); Pittaro, *A Spanish Reader* (D. C. Heath & Co.); Marcial Dorado, *España Pintoresca* (Ginn & Co.).

Writing

s 1. FREE-ARM MOVEMENT.

Miss Poore. Credit, 1 hour. N.
Five hours a week.

Practical instruction in free-arm movement writing; drills, lectures, type lessons for primary, intermediate, and grammar grades. The course offered is planned to make better teachers of writing; hence, there will be two definite aims in view: (1) to improve the handwriting of those taking the course, and (2) to study the best methods to be used in teaching children to write. The course should be helpful to teachers, no matter what system they teach.

s 2. PALMER METHOD WRITING.

Miss Poore. Credit, 1 hour. N.
Five hours a week.

Drill and instruction in muscular movement and the development and perfection of muscular movement writing. Method of teaching and muscular movement writing as they relate to teacher and to pupils of all grades in the elementary school. The eight essential steps and their stages freely discussed and demonstrated.

Section I—8:00.

Section II—8:50.

Section III—12:40.

Zoology

s 20. PRINICPLES, DATA, AND METHODS OF GENERAL ZOOLOGY.

Mr. George. Credit, 2 hours. C.
Ten hours a week.

This course affords a basis for courses on the teaching of zoology and physiology in high schools. Lectures and laboratory work. Ten class exercises weekly, giving college credit equivalent to a full course. Laboratory fee, $5.00.

s 21. A CONTINUATION OF THE PRECEDING COURSE.

Mr. George. Credit, 2 hours. C.
Ten hours a week.

Lectures and laboratory work. Ten class exercises weekly giving college credit equivalent to a full course. This and the

preceding course cover the simpler phenomena of the anatomy and physiology of animals, the characteristics of the chief groups of animals, together with some discussion of evolution, heredity and the nature of individual development. Neither course may be substituted in place of Zoology 1 or 2 for preliminary medical credit. Laboratory fee, $15.00.

s 22. METHODS AND DATA FOR THE TEACHING OF ZOOLOGY AND PHYSIOLOGY IN HIGH SCHOOLS.

MR. HUNTER. Credit, 1 hour. C.
Five hours a week.

Lectures and laboratory work. Five class exercises weekly, giving college credit equivalent to a half course. Prerequisite Zoology 1-2 or Zoology 20-21. Those completing the course are entitled to a certificate of competency for the teaching of zoology and physiology in high schools. Laboratory fee, $5.00.

BUREAU OF EXTENSION

Officers

Harry Woodburn Chase, Ph.D., LL.D., *President.*
Louis Round Wilson, Ph.D., *Director.*
Edgar Ralph Rankin, A.M., *Assistant Director.*
Chester DeForest Snell, B.H., B.S., *Assistant Director.*
Nellie Roberson, *Secretary.*

IN CHARGE OF DIVISIONS

Louis Round Wilson, Ph.D., *In charge of General Information, Library Service, Publications.*
Edgar Ralph Rankin, A.M., *In charge of High School Debating and Athletics.*
Chester DeForest Snell, B.H., B.S., *In charge of Lectures.*
Eugene Cunningham Branson, A.M., *In charge of County Economic and Social Surveys.*
Howard Washington Odum, Ph.D., *In charge of Municipal Reference.*
Lester Alonzo Williams, A.M., Pd.D., *In charge of Educational Information and Assistance.*
Nellie Roberson, *In charge of Women's Clubs.*
Chester DeForest Snell, B.H., B.S., *In charge of Home Study Courses.*
Thomas Felix Hickerson, A.M., S.B., *In charge of Road Institutes.*
Parker Hayward Daggett, S.B., *In charge of Rural Engineering.*
Frederick Henry Koch, A.M., *In charge of Community Drama.*
Paul John Weaver, A.B., *In charge of Community Music.*
William Chambers Coker, Ph.D., *In charge of Design and Improvement of School Grounds.*

The Bureau of Extension offers to the people of the State:

I. GENERAL INFORMATION

Concerning books, readings, essays, study outlines, and subjects of general interest. Literature will be loaned from the Library upon the payment of transportation charges each way.

II. GUIDANCE IN DEBATE AND DECLAMATION

This division of the Bureau of Extension offers assistance in two ways:

1. Material is sent from the Library for use in debate and declamation upon the payment of the transportation charges.

2. Through the High School Debating Union it supervises a State-wide debate which culminates in the contest at the University for the Aycock Memorial Cup.

The final contest of the session 1912-1913, in which seventeen schools out of ninety participated, was won by Messrs. Grady Bowman and Samuel C. Hodgin of the Pleasant Garden High School, Guilford County. The final contest of the session 1913-1914, in which forty-one schools out of one hundred and fifty participated, was won by Messrs. Clifton Eaton and Charles Roddick of the Winston-Salem High School. The final contest of 1914-1915, in which fifty out of two hundred and fifty participated, was won by Misses Lalla Rook Flemming and Ethel Gardner of the Wilson High School. The final contest of 1915-1916, in which sixty-eight out of three hundred and twenty-five participated, was won by Miss Myrtle Cooper and Mr. Boyd Harden of the Graham High School. The final contest of 1916-1917, in which seventy-six out of three hundred and thirty-one participated, was won by Vinson Smathers and Roy Francis of the Waynesville High School. The final contests of 1918-1919, in which forty-one schools out of one hundred and eighty participated, was won by Miss Aura Holton and Leo Brady of the Durham High School. The final contest of 1919-1920, in which forty-four schools out of two hundred participated, was won by Arthur Kale and Clifton Ervin of the Asheville High School.

The following bulletins have been issued:

Woman's Suffrage.
Addresses on Education for Use in Declamation.
The Initiative and Referendum.
Public Discussion and Debate.
Ship Subsidies.
The Enlargement of the Navy.
Government Ownership of Railways.
Compulsory Arbitration of Industrial Disputes.
Restricted Immigration.
The Closed Shop.

III. INSTRUCTION BY LECTURES

The University conducts a lecture bureau for the purpose of aiding schools, women's clubs, and other organizations in obtaining speakers to discuss with them the problems incident to their daily activities and to interest them in those things which look to the upbuilding of the State and the cultivation of the finer things of the spirit. Addresses for special occasions such as school and college commencements are also supplied upon application.

The traveling and incidental expenses of the lecturer are borne by the organization for which the lecture is made. In the case of illustrated lectures there may be an additional expense for the operator of the lantern if the operator is not supplied locally.

Each year the division publishes an announcement containing full information as to subjects and lectures, copies of which can be secured upon application.

IV. COUNTY ECONOMIC AND SOCIAL SURVEYS

This division of the Bureau of Extension has the supervision of the investigations of the County Clubs, whose purpose is to aid through wisely directed study the efforts to better the economic and social conditions in the various communities of the State.

The following bulletins have been issued:

Co-operative Institutions Among the Farmers of Catawba County.
Syllabus of Home-County Club Studies.
Country-Life Institutes.
The North Carolina Club Year-Book, 1915-1916.
Sampson County: Economic and Social.
The North Carolina Year-Book, 1916-1917.
Local Study-Clubs: Essays at Citizenship.
The North Carolina Club Year-Book, 1917-1918.
Wake County: Economic and Social.
Durham County: Economic and Social.
Rutherford County: Economic and Social.
Rockingham County: Economic and Social.
Halifax County: Economic and Social.
State Reconstruction Studies.

The following circulars have been issued:

Our Country Church Problem.
Our Carolina Highlanders.
Wealth, Welfare, and Willingness in North Carolina.
County Government and County Affairs.

STATE AND COUNTY COUNCIL

This division also has supervision of the State and County Council which has been established as a clearing house for information concerning public education, health, roads, social service, and taxation. An annual conference of from three to five days is held during the summer in which the North Carolina Association of County Commissioners and the State departments of Education, Health, Public Welfare, Highways, and Taxation participate. The State and County Council for 1920 was omitted on account of the special session of the Legislature, the date of which conflicted with those of the Conference.

The Conference has issued the following publication:

Proceedings of the First State and County Council.

V. MUNICIPAL REFERENCE AIDS

The work of this division consists in the study of municipal legislative problems and in the furnishing of material that bears upon current municipal improvement and legislation.

VI. EDUCATIONAL INFORMATION AND ASSISTANCE

For teachers, principals, superintendents, school communities and boards. The School of Education acts as a clearing house for information concerning all phases of educational work and conducts a teachers' bureau as an aid to communities and schools in securing efficient teachers.

The following bulletins have been published relating to the work of this division:

A Professional Library for Teachers in Secondary Schools.

The Teaching of County Geography.

Measurement of Achievement in the Fundamental Elementary School Subjects.

Standard Educational Tests.

Comparative Results of a State-wide Use of Standard Tests and Measurements.

A Study of the Public Schools in Orange County.

Further Use of Standard Tests and Scales As a Basis for a Co-operative Research Plan.

VII. COURSES FOR CLUB STUDY

Through this division the Bureau of Extension offers assistance to the Women's clubs of the State, whether belonging to the Federation or otherwise, through the preparation of programs for sustained study and the loan of reference material from the library. One or more programs are issued by the division each year, with subjects assigned for special papers. References are given to source material and books are loaned upon request. Information is given concerning special programs, and requests for information on any topic of interest to members of clubs is gladly furnished. In the case of clubs following the printed programs, a fixed charge is made, and postage on books must be paid by the borrower.

In order that a general view of the subject matter covered by these courses may be presented, the division is prepared to send special lecturers upon the payment of their traveling expenses.

Printed programs have been provided on the following subjects: South America, The Literary and Historical Background of the Great War, Americanization, Citizenship, Our Heritage, Constructive Ventures in Government, Modern Drama.

VIII. HOME STUDY COURSES

The Bureau of Extension through the Home Study Division offers study courses for teachers and others interested in doing University work at home. The State Board of Examiners gives credit for all these courses towards professional credits or teachers' certificates.

Credit

All courses offered count toward the A.B. degree. One-fourth of the number of courses required for the degree may be taken through Home Study, but not over one-half of this total may be done in any one University year. A candidate must meet University requirements before being enrolled in the University or allowed credit for such work. Final examinations in all courses must be taken by candidates either at the University or under conditions approved by the University. No credit will be given unless a course is completed within twelve months from the time of registration. No credit towards the Master's Degree is given for courses taken through the Home Study Division.

Without Credit

The University reserves the privilege of rejecting or accepting an applicant for these courses who does not desire to enter the University or to receive college credit on the books of the University.

Certificates

When a course has been satisfactorily completed, a certificate to that effect will be sent to the student, and if he has registered for University credit a record of his work will be filed with the University Registrar.

Fees

A fee of $10 is charged for each full course; a fee of $5 is charged for each half course. No fees or parts of fees can be remitted after a course is once begun. A registration fee holds good for only twelve months. If a course is not completed within that time a new registration and fee will be required if it is desired to continue the course.

Courses Offered

Courses are offered in Economics, Education, English, History, Latin, and Mathematics. An announcement containing complete information will be sent upon application.

IX. INSTRUCTION IN ROAD ENGINEERING

Under the direction of the North Carolina Highway Commission and the Department of Civil Engineering of the University, instruction in highway engineering is given through the medium of the Road Institute held annually at the University. This Institute is attended by more than a hundred road engineers and supervisors, and road and county commissioners in addition to University students in engineering. Instruction is given through a session of a week by lectures, discussions, exhibits, and practical demonstrations. Assistance in the conduct of the Institute is rendered by members of the University faculty and professors from other universities, by prominent engineers and commissioners, by highway officers of this and other states, and by representatives of the office of Public Roads of the Federal Government. The Institute in 1918-1919 was held in connection with the State and County Council and was omitted in 1919-1920 on account of conflict in dates with the special session of the Legislature.

X. COUNTRY HOME COMFORTS

The General Assembly of 1917 authorized the State Highway Commission "to advise and assist in providing a water supply and electric power and electric lights for rural communities and individuals outside of incorporated towns, by investigating natural

powers and preparing plans for their development and the installation of such apparatus as may be needed to utilize such water power in developing electric power and for supplying a water system and electric light system, and to furnish plans and specifications for the installation of rural mutual telephone systems."

In order to carry out the purposes of this law the State Highway Commission has enlisted the services of the Engineering Departments of the University, and this work is being carried on by a staff of engineers organized under the Bureau of Extension as the Division of Country Home Comforts and Conveniences. The headquarters of this division are at Chapel Hill, and Professor P. H. Daggett is in charge of the division.

The following publications have been issued:

Electric Light and Power, Water Supply, Sanitation, and Telephones.

Sanitation in the South.

A Comparison of Mechanical Features and Operating Principles of Farm Lighting Sets.

Development of Farm Water Powers.

The Construction of Rural Telephone Lines.

XI. COMMUNITY DRAMA

The Division of Community Drama has been established with the ultimate aim of encouraging in the State the writing and production of original communal drama. The Division desires to promote all forms of dramatic activities designed to raise the standard of play production with a view to supplying, by means of the play and pageant, recreation which will be at once wholesome and of genuine significance.

Through the Library of the University play-books are sent to citizens of the State in order that they may be able to select plays suitable to their needs. Advice in the selection of such plays, in the construction of school and community stages, and in all branches of stagecraft will be supplied.

Information and guidance in the writing and production of original community plays and pageants are also offered, and as far as possible the Division will supply to such communities as desire it, trained directors to plan the organization and production of these community enterprises. The Division is under the direction of Frederick H. Koch, Professor of Dramatic Literature in the University.

The Division has issued a bulletin on play selection entitled Plays for Amateurs.

XII. COMMUNITY MUSIC

In this division the Bureau offers assistance to organizations and communities which are interested in the development of community music. Mr. Paul John Weaver, Professor of Music in the University, is available for the following services: 1. Lectures on community music; 2. Leadership of community sings; 3. Formation of community choruses; 4. Piano lecture recitals on various subjects; 5. A limited number of organ recitals.

This division has issued the following publication:
Community Music.

XIII. DESIGN AND IMPROVEMENT OF SCHOOL GROUNDS

This division has been established to promote the beautification of school grounds. It hopes to accomplish this by means of a bulletin containing twenty or more designs of actual or hypothetical school grounds, together with photographs of illustrative plantings from various sources such as the University Arboretum, private grounds, mills, community houses, together with a few typical construction designs of arbors, walks, etc., each general design being accompanied by a planting plan showing the plants to be used.

A second purpose of this division is to give direct assistance through personal visits of its secretary to schools and organizations that indicate a desire for help. In this connection it is prepared to give advice as to principles of planting in such a way as to secure desirable effects and to give information concerning trees, shrubs, and flowers which are particularly adapted to various sections of the State.

The following publication has been issued:
The Design and Improvement of School Grounds.

PUBLICATIONS

The Bureau of Extension maintains the following publications:
Extension Series Record.
University of North Carolina News Letter.
Extension Series Circulars.
Extension Leaflets.

PART FOUR

COURSES OF INSTRUCTION

NOTES ON THE METHOD OF NUMBERING COURSES

The courses described in this section of the catalogue are those offered in The College of Liberal Arts, in The School of Applied Science, and in The Graduate School.

For courses offered in The School of Education, see page 131.
For courses offered in The School of Commerce, see page 143.
For courses offered in The School of Law, see page 170.
For courses offered in The School of Medicine, see page 179.
For courses offered in The School of Pharmacy, see page 191.
For courses offered in The Summer School, see page 200.

Courses with a double number are completed in two quarters and in general credit will not be given until both quarters have been completed. Certain of these courses meet only three times a week and count as one course; for example, History 11-12. Courses which meet five times a week for two quarters carry a credit of two courses; for example, Economics 1-2.

Courses with three numbers require three quarters to complete. Those meeting five times a week carry a credit of three courses; for example, Botany 4-5-6. Those meeting only three times a week carry a credit of one and a half courses; for example, English 13-14-15.

DEPARTMENT OF BOTANY

WILLIAM CHAMBERS COKER, Ph.D., *Kenan Professor of Botany.*
HENRY ROLAND TOTTEN, A.M., *Instructor in Botany.*

Assistants in Botany, 1920-1921

ETTA PIERSON. CARL PRESTON SAVAGE
ALMA HOLLAND

(For description of Biological Laboratories, see page 45.)

Courses for Undergraduates

1. GENERAL BOTANY.

PROFESSOR COKER and MR. TOTTEN. Credit, 1 course.
Six hours a week.
Freshman, Sophomore, Junior and Senior elective. *Fall or Spring Quarter.*
Laboratory fee, $4.00.

An introduction to the structure and classification of plants. Lectures with laboratory and field work.

2. STRUCTURE AND CLASSIFICATION OF SEED PLANTS.

PROFESSOR COKER and MR. TOTTEN. Credit, 1 course.
Five hours a week.
Sophomore, Junior and Senior elective. *Spring quarter.*
Laboratory fee, $4.00.
Prerequisite: Botany 1.

Structure and classification of Seed Plants with special attention to agricultural problems.

3. For description of Course 3, see School of Pharmacy.

Courses for Graduates and Advanced Undergraduates

4-5-6. SPECIAL MORPHOLOGY OF THE FUNGI.

PROFESSOR COKER and MR. TOTTEN. Credit, 3 courses.
Five hours a week.
Prerequisite: Botany 1. *Fall, Winter and Spring Quarters.*
Laboratory fee, $4.00 a quarter.

Special Morphology of the Fungi with special attention to plant diseases, the culture of the lower fungi, and the identification of mushrooms. Lectures with laboratory and field work. (Credit

will be given for any quarter.) These courses may be continued under the same numbers for more than one year as the subject advances, credit being given for each repetition.

Courses Primarily for Graduates

107-108-109. PLANT MORPHOLOGY.

Professor Coker. Credit, 3 courses.
Five hours a week.
Fall, Winter and Spring Quarters.
Laboratory fee, $4.00 a quarter.

Advanced work in the embryology and anatomy of plants. The student is required to collect and prepare material for the microscopic study of special problems. Theses. These courses may be continued under the same numbers for more than one year as the subject advances, credit being given for each repetition.

110-111-112. GRADUATE RESEARCH.

Professor Coker. *Laboratory fee, $4.00 a quarter.*

Original work, with thesis, under the guidance of the instructor. This course may cover most of the work of the student for several years, credit being given each year in accordance with the work done.

DEPARTMENT OF CHEMISTRY

Francis Preston Venable, Ph.D., D.Sc., LL.D., *Kenan Professor of Chemistry.*

Alvin Sawyer Wheeler, Ph.D., *Professor of Organic Chemistry.*

James Munsie Bell, Ph.D., *Smith Professor of Chemistry.*

James Talmage Dobbins, Ph.D., *Associate Professor of Chemistry.*

Ira Welborn Smithey, M.S., *Instructor in Chemistry.*

Isaac Vilas Giles, M.S., *Instructor in Chemistry.*

Haywood Maurice Taylor, B.S., *Instructor in Chemistry.*

Teaching Fellows in Chemistry, 1920-1921

Thomas Pugh Dawson, Ph.C.
Samuel Clement Smith, A.M.
Paul Reber Dawson, A.B.
Abraham Maurice Wolfson, B.S.
Richard Arthur Lineberry, B.S.

Assistants in Chemistry, 1920-1921

BARNETTE NAIMAN. SIHON CICERO OGBURN, JR.
ROBERT ODUS DEITZ, JR.

(For description of Chemical Laboratories, see page 44.)

Courses for Undergraduates

1-2. GENERAL DESCRIPTIVE CHEMISTRY.

PROFESSORS VENABLE and BELL, MESSRS. SMITHEY, GILES, TAYLOR, T. P. DAWSON, WOLFSON, and LINEBERRY.
Sophomore elective.

Credit, 2 courses.
Six hours a week.
Fall and Winter or Winter and Spring Quarters.
Laboratory fee, $4.00.

An introduction to the study of the principal non-metallic and metallic elements and their compounds. Lectures with laboratory work.

1-2E. GENERAL DESCRIPTIVE CHEMISTRY.

PROFESSOR BELL, MESSRS. SMITHEY, GILES, TAYLOR, T. P. DAWSON, WOLFSON, and LINEBERRY.

Credit, 2 courses.
Six hours a week.
Fall and Winter or Winter and Spring Quarters.
Laboratory fee, $4.00 a quarter.

An introduction to the study of the principal non-metallic and metallic elements and their compounds with special emphasis on problems. Required of B. S. students. Lectures with laboratory work.

8. CHEMICAL EQUATIONS.

PROFESSOR DOBBINS.
Prerequisite, Chemistry 41-42.

Credit, 1 course.
Five hours a week.
Spring Quarter.

A detailed study of the reactions of the elements and their compounds. Lectures and text-books.

21-22-23. RESEARCH FOR SENIORS.

PROFESSORS VENABLE, WHEELER, BELL and DOBBINS.
Prerequisite, Chemistry 45-46-47, 61-62, 81-82.

Credit, 3 courses.
Six hours a week.
Fall, Winter and Spring Quarters.
Laboratory fee, $10.00 a quarter.

31. QUALITATIVE ANALYSIS.

PROFESSOR DOBBINS and MESSRS. SMITHEY and P. R. DAWSON. Credit, 1 course. *Five hours a week.* *Fall or Spring Quarter.* Prerequisite, Chemistry 1-2. *Laboratory fee, $10.00.*

Laboratory work and lectures.

41. ELEMENTARY QUANTITATIVE ANALYSIS.

PROFESSOR DOBBINS and MR. SMITH. Credit, 1 course. *Five hours a week.* Prerequisite, Chemistry 31. *Fall Quarter.* *Laboratory fee, $10.00.*

Gravimetric Analysis. Laboratory work, lectures and stoichiometric exercises.

42. ELEMENTARY QUANTITATIVE ANALYSIS.

PROFESSOR DOBBINS and MR. SMITH. Credit, 1 course. *Five hours a week.* Prerequisite, Chemistry 41. *Winter Quarter.* *Laboratory fee, $10.00.*

Volumetric Analysis. Laboratory work, lectures and stoichiometric exercises.

44. ELEMENTARY QUANTITATIVE ANALYSIS.

PROFESSOR DOBBINS and MESSRS. SMITHEY and P. R. DAWSON. Credit, ½ course. *Three hours a week.* *Winter Quarter.* Prerequisite, Chemistry 31. *Laboratory fee, $7.00.*

A brief course in gravimetric methods, followed by a more extended course in volumetric methods. Open only to B.S. IV and Pre-Medical students.

47. TECHNICAL ANALYSIS.

PROFESSOR DOBBINS AND MR. SMITH. Credit, 1 course. *Five hours a week.* Prerequisite, Chemistry 41-42. *Spring Quarter.* *Laboratory fee, $7.00.*

Spectroscopic and Microchemical Methods.

61. ORGANIC CHEMISTRY.

PROFESSOR WHEELER and MR. OGBURN. Credit, 1 course.
Five hours a week.
Prerequisite, Chemistry 31. *Spring Quarter.*
The Aliphatic Series. *Laboratory fee, $7.00.*

70. ORGANIC CHEMISTRY.

PROFESSOR WHEELER AND MESSRS. DIETZ, NAIMAN. Credit, 1 course.
Five hours a week.
Prerequisite, Chemistry 31. *Spring Quarter.*
Laboratory fee, $7.00.

Aliphatic Series. Required for admission to Medical School. Open only to B.S. IV and Pre-Medical Students.

For courses 71, 72, 73, see School of Medicine.

Courses for Graduates and Advanced Undergraduates

11. INDUSTRIAL CHEMISTRY.

PROFESSOR VENABLE. Credit, 1 course.
Prerequisite, Chemistry 1-2. *Five hours a week.*
Fall Quarter.

The methods and economics of the chemical industries; acids, alkalies, fertilizers, etc. Lectures and text-books.

12. INDUSTRIAL CHEMISTRY.

PROFESSOR VENABLE. Credit, 1 course.
Prerequisite, Chemistry 1-2. *Five hours a week.*
Winter Quarter.

The methods and economics of the chemical industries; metals and textiles. Lectures and text-books.

13. CHEMISTRY OF FOODS.

PROFESSOR VENABLE. Credit, 1 course.
Prerequisite, Chemistry 1-2. *Five hours a week.*
Spring Quarter.

Digestion processes; and the composition, preservation, adulteration and industrial production of foods.

18. HISTORY OF CHEMISTRY.

PROFESSOR VENABLE. Credit, ½ course.
Prerequisite, Chemistry 61-62 and 81-82. *Three hours a week.*
Spring Quarter.

History of Chemistry: with discussion of the development of chemical theories.

45. TECHNICAL QUANTITATIVE ANALYSIS.

PROFESSOR DOBBINS AND MR. SMITH. Credit, 1 course. *Five hours a week.* Prerequisite, Chemistry 41-42. *Fall Quarter.* *Laboratory fee, $7.00.*

Fuel and Gas Analysis.

46. TECHNICAL QUANTITATIVE ANALYSIS.

PROFESSOR DOBBINS AND MR. SMITH. Credit, 1 course. *Five hours a week.* Prerequisite, Chemistry 41-42. *Winter Quarter.* *Laboratory fee, $7.00.*

Water, Fertilizer, Iron and Steel, Cotton Products, etc.

62. ORGANIC CHEMISTRY.

PROFESSOR WHEELER AND MR. OGBURN. Credit, 1 course. *Five hours a week.* Prerequisite, Chemistry 61. *Fall Quarter.* *Laboratory fee, $7.00.*

The Carbocyclic and Heterocyclic Series.

63. IDENTIFICATION OF PURE ORGANIC COMPOUNDS.

PROFESSOR WHEELER. Credit, 1 course. Prerequisite, Chemistry 62. *Five hours a week.* *Spring Quarter.* *Laboratory fee, $7.00.*

64. ADVANCED ORGANIC CHEMISTRY.

PROFESSOR WHEELER. Credit, 1 course. Prerequisite, Chemistry 62. *Five hours a week.* *Winter Quarter.*

Special chapters. Lectures and recitations.

81. PHYSICAL CHEMISTRY.

PROFESSOR BELL. Credit, 1 course. Prerequisite, Chemistry 41-42. *Five hours a week.* *Winter Quarter.* *Laboratory fee, $4.00.*

Study of the properties of solids, liquids and gases, and of their relation to chemical constitution.

82. PHYSICAL CHEMISTRY.

PROFESSOR BELL. Credit, 1 course. Prerequisite, Chemistry 81. *Five hours a week.* *Spring Quarter.* *Laboratory fee, $4.00.*

The theory of solutions.

83. PHYSICAL CHEMISTRY.

PROFESSOR BELL. Credit, 1 course.
Prerequisite, Chemistry 81-82. *Five hours a week.*
Fall Quarter.

The methods of physical chemistry as applied to industrial processes. Lectures and text-books.

84. PHYSICAL CHEMISTRY.

PROFESSOR BELL. Credit, 1 course.
Prerequisite, Chemistry 81-82. *Five hours a week.*
Spring Quarter.

Electrochemistry. Lectures and text-books.

Courses Primarily for Graduates

114-115-116. ADVANCED TECHNICAL CHEMISTRY.

PROFESSOR VENABLE. Credit, 1½ courses.
Prerequisite, Chemistry 11-12-13. *Fall, Winter and Spring Quarters.*

Seminar Course: readings and discussions of recent advances in Technical Chemistry. This course extends throughout the year.

124-125-126. ADVANCED INORGANIC CHEMISTRY.

PROFESSOR VENABLE. Credit, 1½ courses.
Prerequisite, Chemistry 8. *Fall, Winter and Spring Quarters.*

Seminar Course: readings and discussions of recent advances in inorganic chemistry. This course extends throughout the year.

127-128-129. RESEARCH IN INORGANIC, ANALYTIC AND INDUSTRIAL CHEMISTRY.

PROFESSOR VENABLE. Credit, 3 courses.
Fall, Winter and Spring Quarters.
Laboratory fee, $10.00 a quarter.

This course (or 177-178-179 or 197-198-199) is intended for applicants for advanced degrees. Laboratory work with frequent conference with the professor and reference to the literature relating to the subject of research. The subject of research must be assigned or approved by the professor. This course extends throughout the year.

174-175-176. ADVANCED ORGANIC CHEMISTRY.

PROFESSOR WHEELER. Credit, 1½ courses.
Prerequisite, Chemistry 63 and 64. *Fall, Winter and Spring Quarters.*

Seminar Course: readings and discussion of special chapters in organic chemistry. This course extends throughout the year.

177-178-179. RESEARCH IN ORGANIC CHEMISTRY.

Professor Wheeler. Credit, 3 courses.
Fall, Winter and Spring Quarters.
Laboratory fee, $10.00 a quarter.

The statements made in regard to Course 127-128-129 apply also to this course.

194-195-196. ADVANCED PHYSICAL CHEMISTRY.

Professor Bell. Credit, 1½ courses.
Prerequisite, Chemistry 83 and 84. *Fall, Winter and Spring Quarters.*

Seminar Course: readings and discussions of recent advances in physical chemistry. This course extends throughout the year.

197-198-199. RESEARCH IN PHYSICAL CHEMISTRY.

Professor Bell. Credit, 3 courses.
Fall, Winter and Spring Quarters.
Laboratory fee, $10.00 a quarter.

The statements made in regard to Course 127-128-129 apply also to this course.

The Journal Club meets fortnightly. The current Journals, American, English, German, and French, both the purely scientific and the technical are reviewed by the students and instructors. Attendance is expected of students in advanced courses.

DEPARTMENT OF CIVIL ENGINEERING

———————————*Professor in Civil Engineering.*

Thomas Felix Hickerson, A.M., S.B., *Professor of Civil Engineering.*

Thorndike Saville, C.E., *Associate Professor of Hydraulic and Sanitary Engineering.*

Assistants in Civil Engineering, 1920-1921

Nathaniel Parkinson Hayes James Sims Wearn

(For description of Civil Engineering Laboratories, see page 48.)

Courses for Undergraduates

1. SURVEYING AND PLOTTING.

Professor Hickerson. Credit, 1 course.
Prerequisite, Mathematics 2E. *Five hours a week.*
Fall or Spring Quarter.
Laboratory fee, $2.00.

Differential and profile leveling, land surveying with the compass and transit, azimuth and deflection traverses, the stadia

method, adjustments of the instruments, computations of area, division of land, etc. Lectures, field practice and exercises in mapping surveys.

3. MECHANICS AND MECHANISM.

PROFESSOR HICKERSON. Credit, 1 course.
Prerequisite, Physics 1. *Five hours a week.*
Winter Quarter.

An elementary course in statics, dynamics and mechanism. Lectures and problems solved by both the analytical and graphical methods.

5. PLANE TABLE SURVEYING AND MAPPING.

PROFESSOR SAVILLE. Credit, ½ course.
Prerequisite, C. E. 1. *Three hours a week.*
Spring Quarter.
Laboratory fee, $2.00.

Preparation and interpretation of topographical maps. Lectures and field work.

9. HIGHER SURVEYING AND RAILWAY PROBLEMS.

PROFESSOR ————. Credit, 1 course.
Five hours a week.
Fall Quarter.
Laboratory fee, $2.00.

Designed to supplement courses 1-2 and 11-12. Problems and field work in establishment of the true meridian, base line measurements, triangulation, adjustment of observations, earthwork, easement curves, etc.

10. RAILROAD ENGINEERING.

PROFESSOR ————. Credit, 1 course.
Prerequisite, C. E. 9. *Five hours a week.*
Spring Quarter.
Laboratory fee, $2.00.

Problems of railroad construction and maintenance of way. Lectures and field work.

11-12. HIGHWAY ENGINEERING.

PROFESSOR HICKERSON. Credit, 2 courses.
Prerequisite, C. E. 1. *Five hours a week.*
Fall and Spring Quarters.
Laboratory fee, $2.00 a quarter.

Lectures, laboratory work, field practice, and inspection trips. A study of the problems pertaining to the location, construction

and maintenance of country highways and city pavements. Highway systems, the principles of highway location, surveying and mapping, the economics of highway construction and maintenance, drainage, bridges and culverts, road surfacing materials, sand clay and top soil roads, gravel and macadam, and the various types of hard surface roads and pavements. The laboratory work includes the standard tests upon tars, oils, asphalts, stone, sand-clay mixtures, etc. The field practice is completed with the location and design of a highway about one-half mile in length, including plans and profiles exactly according to the requirements of federal-aid project surveys.

16. MATERIALS OF CONSTRUCTION.

Professor Saville. Credit, 1 course.
Five hours a week.
Winter Quarter.
Laboratory fee, $3.00.

Lectures with laboratory work on tests of materials of wood, iron, steel, concrete, etc.

18. ENGINEERING GEOLOGY AND FOUNDATIONS.

Professor Saville. Credit, ½ course.
Prerequisite, Geology 1-2. *Three hours a week.*
Fall Quarter.

Geological structures as influencing engineering construction, foundations, excavations, building materials, borings, tunnelling, etc.

Courses for Graduates and Advanced Undergraduates

17. MECHANICS OF MATERIALS.

Professor Saville. Credit, 1 course.
Prerequisite, Mathematics 8, 12. *Five hours a week.*
Spring Quarter.

Lectures and problems. Strength of materials, moments and shears, stresses in beams and columns, deflection of beams, torsion, etc.

19. HYDRAULICS.

Professor Saville. Credit, 1 course.
Prerequisite, Mathematics 8, 12. *Five hours a week.*
Fall Quarter.
Laboratory fee, $3.00.

Flow of water in pipes, canals and rivers. Lectures, laboratory and field work.

20. WATER POWER AND DRAINAGE ENGINEERING.

PROFESSOR SAVILLE. Credit, 1 course.
Prerequisite, C. E. 19. *Five hours a week.*
Winter Quarter.
Laboratory fee, $3.00.

Preliminary studies of rainfall, run-off and storage; characteristics of reaction and impulse wheels; dam designs, general drainage problems. Lectures, class room work and inspection trip.

21. SANITARY ENGINEERING.

PROFESSOR SAVILLE. Credit, 1 course.
Prerequisite, C. E. 19. *Five hours a week.*
Spring Quarter.
Laboratory fee, $3.00.

Water supply and purification; sewage disposal. Design, construction and operation as applied to municipalities and rural communities. Lectures, classroom work and inspection trips.

23-24. STRUCTURES.

PROFESSOR HICKERSON. Credit, 2 courses.
Prerequisite, C. E. 17. *Five hours a week.*
Fall and Winter Quarters.

A thorough study of outer and inner forces as applied to structures of various types. Loadings, influence diagrams for moment and shear, plate girders, bridge trusses, continuous girders, graphical statics, masonry dams, earth pressure, arches, cantilever and swing bridges, theorem of least work.

25. REINFORCED CONCRETE STRUCTURES.

PROFESSOR HICKERSON. Credit, 1 course.
Prerequisite, C. E. 23-24. *Five hours a week.*
Spring Quarter.

A study of the stresses in concrete beams, slabs, walls, columns and arches reinforced with steel for bridges, buildings, etc.

26-27. BRIDGE DESIGN.

PROFESSOR HICKERSON. Credit, 2 courses.
Five hours a week.
Winter and Spring Quarters.

Computations and drawings for the design of typical railroad and highway bridges of wood, steel and concrete; to be taken in connection with C. E. 24-25.

Courses Primarily for Graduates

100. ADVANCED HYDRAULIC AND SANITARY ENGINEERING.

Professor Saville. Credit, 1 course.
Prerequisite, C. E. 19-21. *Five hours a week.*
One Quarter.

Study of the design, construction and operation of water supplies and purification plants and of sewerage systems and sewage treatment. Drafting room work.

101-102. RESEARCH IN HYDRAULIC AND SANITARY ENGINEERING.

Professor Saville. Credit, 1 or 2 courses.
Five hours a week.
Two Quarters.

The study and investigation of special problems relating to hydraulics, water power and sanitary engineering, under the direct supervision of the instructor. Open only to specially qualified students. Field or laboratory work.

103-104-105. STATICALLY INDETERMINATE STRUCTURES.

Professor Hickerson. Credit, 3 courses.
Prerequisite, C. E. 23-24-25. *Five hours a week.*
Fall, Winter and Spring Quarters.

Lectures and design problems in the drafting room. Theorem of least work, influence lines, secondary stresses, cantilever and suspension bridges, computation of stresses and the design of a two-hinged arch.

DEPARTMENT OF COMPARATIVE LITERATURE

Courses in Comparative Literature are administered by a special committee consisting of Professors Greenlaw, Howe, and Toy. They may be elected as a minor, or, with the approval of departments, as partially satisfying major requirements in the division of Languages and Literatures.

The province of courses offered under this heading is indicated by the following aims: 1. To acquaint students with significant periods in the development of human culture through the medium of literature considered without regard to national or linguistic bounds. 2. To study, through translations, the chief literary masterpieces other than English, ancient and modern. 3. To gain some acquaintance with the special traits of various nationalities as revealed in their literatures, thus supplementing the study of history and of the various languages, and contributing to a better understanding of international relationships.

Courses for Undergraduates

1-2-3. SURVEY OF EUROPEAN LITERATURE THROUGH THE SIXTEENTH CENTURY.

PROFESSOR GREENLAW.
Junior and Senior elective.
Required of candidates for Honors.

Credit, 1½ courses.
Fall, Winter and Spring Quarters.
Given in 1920-1921 and in alternate years.

A study of the medieval mind as reflected in masterpieces of literature, of the value of these masterpieces to modern culture, and of certain modern versions of medieval story. Material read is selected from (a) the early heroic poetry: Beowulf, Icelandic and old Norse legend, the Nibelungenlied; chivalric poetry; The Song of Roland, and its influence on French and Italian romance; the Arthurian material: early Celtic legends; the Arthurian romance in France; Malory, and the literary influences of this material. Translations from the original are supplemented by certain modern versions, such as Arnold's *Balder Dead;* Morris's *Sigurd the Volsung*, and other medieval legends; Tennyson's Arthurian legend, etc.

(b) Dante. Selections from Dante's poetry are accompanied by material illustrative of medieval Christian thought, the founding of the universities, and classical influences (philosophy and epic poetry). Taylor's *Medieval Mind;* Grandgent's *Dante;* and essays by Carlyle and others are also used.

(c) The Age of Chaucer. Besides selections from Chaucer's poetry, some attention is paid to such material as the ballads, the *Romance of the Rose*, the stories of Renard the Fox, Froissart, Caxton's service to printing.

(d) Italian literature of the Renaissance: Petrarch, Boccaccio, Ariosto, Tasso.

(e) Spanish and French literature; Amadis of Gaul, Don Quixote, Rabelais, Montaigne.

4-5-6. SURVEY OF EUROPEAN LITERATURE SINCE 1600.

PROFESSOR GREENLAW.
Junior and Senior elective.
Required of candidates for Honors.

Credit, 1½ courses.
Fall, Winter, and Spring Quarters.
Given in 1921-1922 and in alternate years.

A companion course to the preceding, but more limited in scope on account of the greater complexity of modern literature. The purpose is to afford an opportunity for the student to become

acquainted with materpieces of modern European literature in translation, both as elements in individual culture and as means to a better understanding of national ideals. Certain English works are included where these have influenced European literature.

English 65-66. THE NINETEENTH CENTURY NOVEL.

Professor Dargan. Credit, 2 courses.
Sophomore, Junior and Senior elective. *Five hours a week.* *Winter and Spring Quarters.*

A survey of the development of the English novel during the nineteenth century, with attention to parallel developments in French and Russian fiction. Special studies will be made of Scott, Thackeray, George Eliot, and George Meredith; considerable reading will be required in the work of Balzac, Turgenieff and Tolstoy.

Latin 10. LATIN LITERATURE IN ENGLISH TRANSLATION.

Professor Howe. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.* *Spring Quarter.*

Lectures and readings. This course is open to students who have no knowledge of the Latin language.

Courses for Graduates and Advanced Undergraduates

English 41. THE ENGLISH RENAISSANCE.

Professor Greenlaw. Credit, 1 course. *Five hours a week.* *Fall Quarter.* *Given in 1921-1922 and in alternate years.*

The political and literary background of the English Renaissance, including the study of classical learning and medieval literature and thought influential during the period, with some consideration of the Italian Renaissance. The chief readings are in Spenser and his contemporaries.

English 68. COMPARATIVE DRAMA.

Professor Koch. Credit, 1 course. *Five hours a week.* *Winter Quarter.*

A general survey of the drama and the theatre from Aeschylus to Ibsen. The history of the stage and the development of dramatic literature is studied through representative plays in translation of the leading European dramatists.

English 69. COMPARATIVE DRAMA.

PROFESSOR KOCH. Credit, 1 course.
Five hours a week.
Spring Quarter.
Offered in 1919-1920 and in alternate years.

A survey of the European drama from Ibsen to the present time through selected plays. Special attention is given to the new technique and to the function of the drama in interpreting modern thought and changing social conditions.

Greek 23-24-25. GREEK DRAMA IN ENGLISH TRANSLATIONS.

PROFESSOR BERNARD. Credit, 1½ courses.
Three hours a week.

A course designed to embrace the origin, development, technique and content of the entire Greek Drama, with emphasis on the tragedy as one interpretation of Greek life and thought as a contribution to world progress.

Latin 14. THE LATIN EPIC.

PROFESSOR HOWE. Credit, 1 course.
Prerequisite, Latin 1-3. *Five hours a week.*
Spring Quarter.

The history of Latin Epic; detailed study of the *Aeneid.*

DEPARTMENT OF ECONOMICS AND FINANCE

DUDLEY DEWITT CARROLL, M.A., *Professor of Economics.*
————————————, *Professor of Economics.*
JOHN BROOKS WOOSLEY, M.A., *Assistant Professor of Economics.*

Courses for Undergraduates

1-2. GENERAL ECONOMICS.

PROFESSORS CARROLL and WOOSLEY. Credit, 2 courses.
Five hours a week.
Sophomore and Junior elective. *Fall and Winter or Winter and Spring Quarters.*

This course is planned to give a general understanding of the fundamental principles underlying our industrial life. An analysis is made of consumption, production, and distribution; of the elements which determine value and price, with a brief introduction to money, banking and credit, monopoly, business combinations, transportation, labor problems, and socialism.

15. INDUSTRIAL HISTORY.

PROFESSOR WOOSLEY. Credit, 1 course.
Sophomore and Junior elective. *Five hours a week.*
Fall or Spring Quarter.

A survey of the steps by which modern industry has evolved from crude beginnings into the complicated capitalistic economy of today. Special emphasis on the development of the wage system, the Industrial Revolution, the expansion of markets, the ebb and flow of industrial activity, the relation of industrial development to political policy, as they have manifested themselves in England and the United States.

Courses for Graduates and Advanced Undergraduates

3-4. MONEY AND BANKING.

PROFESSOR ————————. Credit, 2 courses.
Prerequisite, Economics 1-2. *Five hours a week.*
Fall and Winter Quarters.

A general study of the principles, functions and forms of money, credit and banking; a special study of the current money, credit and banking problems.

6. INSURANCE.

PROFESSOR ————————. Credit, 1 course.
Prerequisite, Economics 1-2. *Five hours a week.*
Spring Quarter.

A general study of the principles and methods of property, social (for industrial wage earners), and life insurance; a special study of life insurance.

9. TRANSPORTATION.

PROFESSOR ————————. Credit, 1 course.
Prerequisite, Economics 1-2. *Five hours a week.*
Fall Quarter.

A general study, from the historical and critical points of view, of railway transportation in such representative countries as Great Britain, France, Italy, Germany and the United States; a special study of passenger and freight traffic and rates; a special study of the states' relations to the railways.

10. LABOR PROBLEMS.

PROFESSOR CARROLL. Credit, ½ course.
Prerequisite, Economics, 1-2. *Three hours a week.*
Spring Quarter.

A study of labor as a factor in the industrial process; of the wage system and employment problems; of immigration and poverty; of labor organizations, strikes, lockouts, arbitration, factory legislation, and industrial education.

13-14. PUBLIC FINANCE.

PROFESSOR CARROLL. Credit, 2 courses.
Prerequisite, Economics 1-2. *Five hours a week.*
Winter and Spring Quarters.

A general study of the principles which are involved in the revenues and expenditures of the State, and in the relation of the State to the industries of its citizens; a special study of taxation—local, State, and National.

16. THEORIES OF ECONOMIC REFORM.

PROFESSOR CARROLL. Credit, ½ course.
Prerequisite, Economics 1-2. *Three hours a week.*
Fall Quarter.

An analysis of the leading proposals for reform in the present economic system, including Socialism, Bolshevism, Labor Co-partnership, and Industrial Democracy.

NOTE:—Students in the College of Liberal Arts who elect Economics as their department for concentrated study in the Junior and Senior years may be permitted to elect certain courses in The School of Commerce, subject to the approval of the head of the Department of Economics.

For courses in Accounting, Business Organization, Administration, Commerce and Marketing, see School of Commerce, page 148.

DEPARTMENT OF EDUCATION

Students in the College of Liberal Arts may elect Education as their department for concentrated study, selecting their courses in accordance with the general regulations on page 116. Students may also elect certain courses in Education as a minor. The complete list of courses in Education may be found on page 134.

DEPARTMENT OF ELECTRICAL ENGINEERING

Parker Hayward Daggett, S.B., *Professor of Electrical Engineering.*

John Harris Mustard, B.S. in E.E., *Professor of Electrical Engineering.*

John Emery Lear, E.E., *Professor of Engineering Sciences.*

Assistants in Electrical Engineering, 1920-1921

Phillip Carver Smith. Roy Madison Casper.
Marshall Edgar Lake. Thomas Bryan Smiley.

(For description of Electrical Engineering Laboratories see page 48.)

Electrical Engineering

Courses for Undergraduates

1-2-3. ESSENTIALS OF ELECTRICAL ENGINEERING.

Professor Mustard and Mr. Lake. Credit, 3 courses. *Five hours a week.* *Fall, Winter and Spring Quarters.* *Laboratory fee, $3.00 a quarter.*
Prerequisites, Physics 1-2 and Mathematics 4E.

A course designed to meet the needs of students in chemistry and civil engineering. Problems and laboratory work in the generation, transmission, distribution and utilization of electrical energy.

10-11-12. ELEMENTS OF ELECTRICAL ENGINEERING.

Professor Mustard and Messrs. Lake and Smiley. Credit, 1½ courses. *Three hours a week.* *Fall, Winter and Spring Quarters.* *Laboratory fee, $6.00 a quarter.*

A course intended to orient the student in the field of electrical engineering by means of a practical study of the fundamental concepts and physical principles on which the profession is based. Study of electrical materials, methods of wiring and the constructional features of electrical apparatus.

20-21-22. PRINCIPLES OF ELECTRICAL ENGINEERING.

Professor Lear and Mr. Casper. Credit, 1½ courses. *Three hours a week.* *Fall. Winter and Spring Quarters.* *Laboratory fee, $3.00 a quarter.*
Prerequisite, E.E. 10-11-12.

A continuation of course 10-11-12 with more emphasis on the mathematical theory of electric and magnetic circuits. The

laboratory work consists largely of simple tests on direct current generators and motors. In the Spring Quarter an introductory study is made of alternating current circuits.

24-25. ENGINEERING PROBLEMS.

PROFESSOR DAGGETT and MR. SMITH.
Prerequisites, E.E. 10-11-12 and Mathematics 4E.

Credit, 1 course.
Three hours a week.
Winter and Spring Quarters.

A course of problems intended to train the student in the engineer's methods of attacking engineering problems. The course will be given in three two-hour periods a week, the problems being chosen largely from the electrical engineering field, although the more fundamental problems in mechanics and machine design, hydraulics, and thermodynamics will also be studied. During the latter part of the course some attention will be given to applications of the exponential functions to simple transients, periodic functions, relations between empirical curves, empirical equations and rational equations, methods of approximation, methods of calculation and the method of least squares.

30-31-32. DIRECT AND ALTERNATING CURRENT MACHINERY.

PROFESSOR MUSTARD.
Prerequisite, E.E. 20-21-22.

Credit, 3 courses.
Five hours a week.
Fall, Winter and Spring Quarters.
Laboratory fee, $3.00 a quarter.

A review of the fundamental principles of electric and magnetic circuits followed by a study of the constructional features and operating principles of direct and alternating current machinery. The laboratory work consists largely of commercial tests.

33-34-35. GENERAL ELECTRICAL ENGINEERING.

PROFESSOR LEAR.
Prerequisite, E.E. 30-31-32.

Credit, 1½ courses.
Three hours a week.
Fall, Winter and Spring Quarters.

This course is designed to give the student a broad understanding of the problems in the most important fields of electrical engineering. The course deals with storage batteries, telephone engineering, radio engineering, power transmission, illuminating engineering and railway engineering, and consists largely of laboratory work.

Courses for Graduates and Advanced Undergraduates

40-41-42. SPECIAL STUDIES IN ELECTRICAL MACHINERY.

Professor Daggett. Credit, 3 courses.
Prerequisite, E.E. 30-31-32. *Five hours a week.*
Fall, Winter and Spring Quarters.
Laboratory fee, $3.00 a quarter.

An analytical study of special problems in both direct and alternating current machinery with a view to correlating the phenomena common to all. In general are considered such questions as predetermination of e.m.f. wave-shapes of alternators; leakage-reactance of windings; exciting ampere-turns in direct-current machines, synchronous-generators, motors, converters and induction machines; armature reaction and regulation of direct-current machines and alternators. For the laboratory work a predetermination of the performance of the machine is made from the dimensions and design constants, and the results are checked by actual test of the performance in the laboratory.

43-44-45. ELECTRICAL MEASUREMENTS.

Professor Lear. Credit, 1½ courses.
Prerequisite, E.E. 20-21-22. *Three hours a week.*
Fall, Winter and Spring Quarters.
Laboratory fee, $3.00 a quarter.

A study of the principles underlying the construction and operation of electric and magnetic measuring instruments. The laboratory work includes calibration of instruments and work with the ballistic galvanometer, potentiometer, Kelvin double-bridge, single-phase and polyphase watt-hour meters.

Courses Primarily for Graduates

100-101-102. ELECTRICAL ENGINEERING SEMINAR.

Professor Daggett. Credit, 3 courses.
Five hours a week.
Fall, Winter and Spring Quarters.

An advanced course in electrical theory, including the study of distributed inductance and capacity, transient phenomena, e.m.f. wave-shapes in alternators and synchronous-converters and the application of hyperbolic functions to the solution of problems in power transmission and telephone circuits. The work will be covered by lectures, reports on assigned reading and problems. Texts: Steinmetz's *Electric Discharges, Waves and Impulses*, and Kennelly's *The Application of Hyperbolic Functions to the Solution of Electrical Engineering Problems.*

110-111-112. ELECTRICAL ENGINEERING RESEARCH AND DESIGN.

PROFESSORS DAGGETT, MUSTARD and LEAR. Credit, 3 courses. *Five hours a week. Fall, Winter and Spring Quarters.*

The solution of one or more definite problems in some particular field of electrical engineering. The work of this course will be outlined, as far as possible, to suit the needs of the individual student, and will consist of original investigations, designs, or the economic study of some existing electric power plant. This course presupposes the completion of the work for the degree of S.B. in electrical engineering.

Mechanical Engineering

Courses for Undergraduates

1. HEAT ENGINES.

PROFESSOR DAGGETT. Credit, 1 course.
Prerequisites, Mathematics 4E and Physics, 1, 2. *Five hours a week. Fall Quarter.*

An elementary study of the various component parts of the modern steam power-plant. The work comprises mainly a study of the construction and operation of boilers, steam engines, and steam turbines. The question of fuels and combustion is also considered briefly. A large number of practical problems will be solved by the student, and those intending to take the course are urged to become familiar with the use of the slide-rule. Visits of inspection will be made to nearby power plants.

2. ENGINEERING THERMODYNAMICS.

PROFESSOR DAGGETT. Credit, 1 course.
Prerequisite, M.E. 1. *Five hours a week. Winter Quarter.*

A practical study of heat energy and the laws governing its transformation into other forms of energy; properties of perfect gases; thermodynamic degeneration and the concept of entropy; properties of vapors; cycle processes and their practical application in the steam engine; the flow of elastic fluids as applied to the steam turbine and to the transmission of power by compressed air; study of the losses in steam engines and turbines, and a brief study of refrigeration.

3. ELECTRIC POWER PLANTS.

Professor Daggett. Credit, 1 course.
Prerequisite, M.E. 2. *Five hours a week.*
Spring Quarter.

Construction, operation and management of factory power-plants and central-stations; choice of machines and auxiliary apparatus, and the layout of the plant as a whole; application of the methods of engineering thermodynamics to the analysis of complete power-plants; study of the losses and their distribution among the different parts of the plant; a brief analysis of the question of rates and regulation of public utilities.

DEPARTMENT OF ENGLISH

Edwin Greenlaw, Ph.D., *Kenan Professor of English.*
Frederick Henry Koch, A.M., *Professor of Dramatic Literature.*
*Norman Foerster, A.M., *Professor of English.*
James Holly Hanford, Ph.D., *Professor of English.*
John Manning Booker, Ph.D., *Professor of English.*
George McFarland McKie, A.M., *Associate Professor of Public Speaking.*
Henry McCune Dargan, Ph.D., *Associate Professor of English, Secretary of the Department.*
Clarence Addison Hibbard, M.A., *Assistant Professor of English.*
William Flint Thrall, Ph.D., *Assistant Professor of English.*
William Dougald, MacMillan, 3d, A.M., *Instructor in English.*
Almonte C. Howell, A.M., *Instructor in English.*
Charles Wellner Camp, A.M., *Instructor in English.*

Teaching Fellows in English, 1920-1921

Edwin Samuel Lindsay, A.B.,
Joseph Felix Spainhour, Jr., A.B.
Albert Pettigrew Elliott, A.B.
Roland Prince McClamroch, A.B.

Assistants in English, 1920-1921

John Lee Aycock.

* Absent on leave 1920-1921.

Courses for Undergraduates

1. FRESHMAN ENGLISH.

PROFESSORS FOERSTER (Chairman), THRALL (Acting Chairman) MCKIE, and DARGAN; MESSRS. MACMILLAN, CAMP, SPAINHOUR, ELLIOTT, MCCLAMROCH.

Credit, 1 course.
Five hours a week.
Every Quarter.

Intensive reading, chiefly in American prose; extensive reading among one thousand selected books in the Library; weekly oral composition on topics discussed in a periodical; constant written composition on topics related with the intensive reading. Required of all Freshmen except those who take English 10.

2. COMPOSITION.

PROFESSOR THRALL (Acting Chairman) and Assistants.

Credit, 1 course.
Five hours a week.
Winter and Spring Quarters.

A continuation of English 1; required of Freshmen and upper classmen who need further drill in the essentials of writing.

3-4. ENGLISH LITERATURE.

PROFESSORS HANFORD (Chairman), GREENLAW, BOOKER, DARGAN, HIBBARD, THRALL, and Mr. MACMILLAN.

Credit, 2 courses.
Five hours a week.
Fall and Winter, or Winter and Spring, or Fall and Spring Quarters.

Works representative of the successive periods of English Literature are studied as an expression of the life and thought of the periods in which they were written and as the embodiment of permanent human interests and ideals. Required of all Sophomores except those who take English 11-12.

10. COMPOSITION.

MR. HOWELL and an Assistant.

Credit, 1 course.
Five hours a week.
Spring Quarter.

A course similar to English 1 in scope and standard but varied to meet the needs of students in scientific work. Required of Freshmen in Engineering courses.

11-12. LITERATURE AND TECHNICAL COMPOSITION.

Mr. Howell. Credit, 2 courses.
Five hours a week.
Fall and Winter Quarters.

A course designed to make clear the relationship between literature and science, both by extensive and intensive reading of the classics of English scientific literature and by actual practice in writing technical and professional forms. Required of all Sophomores in Engineering courses.

13-14-15. DRAMATIC INTERPRETATION.

Professor McKie. Credit, 1½ courses.
Sophomore, Junior and Senior elective. *Three hours a week.*
Fall, Winter and Spring Quarters.

A course in dramatic action and speech, using as material scenes from Shakespeare's plays and short modern plays.

16-17-18. PUBLIC DISCUSSION AND DEBATE.

Professor McKie. Credit, 1½ courses.
Sophomore, Junior and Senior elective. *Three hours a week.*
Fall, Winter and Spring Quarters.

A study of the principles of argumentation and practice in the application of these principles to speaking in such forums as the town meeting, the legislature, and the court room. Attention will also be paid to voice, gesture, and the relations of speaker and audience.

20. COMPOSITION.

Mr. Howell. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.*
Spring Quarter.

A course similar to English 21 in purpose, but emphasizing commercial relations and problems, and affording practice in the writing of professional forms. Especially designed for students in the School of Commerce.

21. ENGLISH COMPOSITION.

Professor Hibbard and Mr. Aycock. Credit, 1 course.
Five hours a week.
Junior and Senior elective. *Fall Quarter.*

Practice in composition, chiefly exposition, based for the most part on the study of contemporary literature, politics and social conditions. Emphasis is placed on originality of thought rather than on mechanics of rhetoric. Special permission must be obtained from the instructor before registering for this course.

23. THE SHORT STORY.

PROFESSOR HIBBARD. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Winter Quarter.

A composition course primarily designed to offer students an opportunity for short story writing and to familiarize them with the form. The work of various European and American authors will be studied.

27. NEWS WRITING.

PROFESSOR ————————. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Fall Quarter.

An elementary course in the writing of various types of news stories. Encouragement is offered for actual publication through various channels. A prerequisite for English 28.

28. NEWS EDITING.

PROFESSOR ————————. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Prerequisite, English 28. *Winter Quarter.*

Preparation of copy for publication and the writing of the more advanced forms such as the editorial, dramatic criticism and book reviews.

29. FEATURE WRITING AND NEWSPAPER CRITICISM.

PROFESSOR HIBBARD. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Spring Quarter.

A study of the special feature article in various periodicals will be made in an effort to recognize standards and types.

37. SHAKESPEARE: THE COMEDIES.

PROFESSOR KOCH. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.*
Fall Quarter.

A study of Shakespeare's contribution to comedy with a consideration of Elizabethan conditions, the technique of the theatre and the art of the playwright, and a comparison of Shakespeare's practice in comedy with the classical and other forms. (Offered in 1921-1922 and in alternate years.)

38. SHAKESPEARE: THE TRAGEDIES.

Professor Koch. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.* *Fall Quarter.*

This course is complementary to English 37. It is a study of Shakespeare's contribution to tragedy and a consideration of his conception of tragedy as compared with the classical and modern types. (Omitted in 1921-1922 and in alternate years.)

51. ENGLISH POETRY FROM BURNS TO KEATS.

Professor Hanford. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.* *Fall Quarter.*

The greater poets of the romantic period are studied as artists and interpreters of life, in the light of the personal, literary and historical circumstances under which they wrote.

55. VICTORIAN LITERATURE.

Professor Booker. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.* *Winter Quarter.*

The purposes of the course are to understand the best known works of Carlyle, Tennyson, Browning, Arnold, Ruskin and Swinburne; to appreciate their beauty, and to relate them both to their times and to ours.

59. AMERICAN LITERATURE.

Professor Foerster. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.* *Winter Quarter.*

The leading writers and tendencies are studied for their interpretation of life and their revelation of American ideals.

61-62. ENGLISH LITERATURE: STUDIES IN GREAT BOOKS.

Professor Booker. Credit, 2 courses.
Sophomore, Junior and Senior elective. *Five hours a week.* *Fall and Winter Quarters.*

The aim of the course is to interest the student in the masterpieces of English Literature by revealing these as guides for man in the most vital relationships of life.

65-66. THE NINETEENTH CENTURY NOVEL.

PROFESSOR DARGAN. Credit, 2 courses.
Sophomore, Junior and Senior elective. *Five hours a week.* *Winter and Spring Quarters.*

A survey of the development of the English novel during the nineteenth century, with attention to parallel developments in French and Russian fiction. Special studies will be made of Scott, Thackeray, George Eliot and George Meredith; considerable reading will be required in the work of Balzac, Turgenieff and Tolstoy.

67. RECENT ENGLISH LITERATURE.

PROFESSOR BOOKER. Credit, 1 course.
Junior and Senior elective. *Five hours a week.* *Spring Quarter.*

The primary object of the course is to follow certain main currents of modern thought in the more significant literature of the last three decades. The authors with whom the course is chiefly concerned are Hardy, Kipling, Arnold, Bennett, Wells and Shaw. (Offered in 1921-1922 and in alternate years.)

Courses for Graduates and Advanced Undergraduates

31-32-33. DRAMATIC COMPOSITION.

PROFESSOR KOCH. Credit, 1½ courses. *Three hours a week.* *Fall, Winter and Spring Quarters.*

A practical course in the writing of original plays. Emphasis is placed on the materials of tradition and folk-lore, and of present-day life. The essentials of stagecraft are illustrated in the production, by Carolina Playmakers, of selected plays written in the course. The course is limited in number.

41. THE ENGLISH RENAISSANCE.

PROFESSOR GREENLAW. Credit, 1 course. *Five hours a week.* *Fall Quarter.*

The political and literary background of the English Renaissance, including the study of classical learning and medieval literature and thought influential during the period, with some consideration of the Italian Renaissance. The chief readings are in Spenser and his contemporaries. (Given in 1921-1922 and in alternate years.)

42. THE ENGLISH RENAISSANCE.

Professor Greenlaw. Credit, 1 course.
Five hours a week.
Fall Quarter.

A study of the works of Bacon, with emphasis on his relation to the educational and political theory of the Renaissance and his contribution to scientific method. (Given in 1920-1921 and in alternate years.)

43-44. THE ELIZABETHAN DRAMA.

Professor Greenlaw. Credit, 2 courses.
Five hours a week.
Winter and Spring Quarters.

A brief study of the beginnings of the English drama, followed by an intensive study of the period from Lyly to the closing of the theatres. While the method of the course is historical, stress is laid upon ideas rather than technique. The works of Shakespeare and his contemporaries form the basis for the study of certain aspects of Renaissance thought and for constant application of these ideas to life. Students who propose to elect this course are advised to prepare for it by taking at least one of the following courses: English 37, 38, 41, 42.

45. MILTON.

Professor Hanford. Credit, 1 course.
Five hours a week.
Winter Quarter.

The works of Milton are studied in the light of the life, times and culture of the poet, with some consideration of the literary problems which are involved in such a study. Class reports and a thesis or essay are required.

47-48. ENGLISH LIFE AND THOUGHT IN EIGHTEENTH CENTURY LITERATURE.

Professor Dargan. Credit, 2 courses.
Five hours a week.
Fall and Winter Quarters.

A survey of English literature from 1660 to 1780, emphasizing (1) changes in national life and manners; (2) the growth of philosophic and political systems; (3) certain characteristic literary forms, such as comedy, the essay and the novel.

56. VICTORIAN LITERATURE: ADVANCED COURSE.

PROFESSOR BOOKER. Credit, 1 course.
Five hours a week.
Spring Quarter.

The work of the course will be in the literature that reflects the English political, economic, social and religious thought of the age that raised the main questions now facing our own generation. (Given in 1920-1921 and in alternate years.)

60. AMERICAN LITERATURE.

PROFESSOR FOERSTER. Credit, 1 course.
Prerequisite, English 59. *Five hours a week.*
Spring Quarter.

A more advanced course for members of English 59 who desire to study more intensively the work of Franklin, Emerson and Whitman.

68. COMPARATIVE DRAMA.

PROFESSOR KOCH. Credit, 1 course.
Five hours a week.
Winter Quarter.

A general survey of the drama and the theater from Aeschylus to Ibsen. The history of the stage and the development of dramatic literature is studied through representative plays in translation of the leading European dramatists.

69. COMPARATIVE DRAMA.

PROFESSOR KOCH. Credit, 1 course.
Five hours a week.
Spring Quarter.

A survey of British and American drama from the Eighteenth Century to the present time through selected plays. Special attention is given to the changing technique. (Offered in 1920-1921 and in alternate years).

71. THE MODERN DRAMA.

PROFESSOR KOCH. Credit, 1 course.
Five hours a week.
Spring Quarter.

A study of representative plays of the present day, beginning with Ibsen. Special attention is given to the Irish Renaissance and to the function of the drama in interpreting modern thought and changing social conditions. (Offered in 1921-1922 and in alternate years).

81. OLD ENGLISH: INTRODUCTORY COURSE.

Professor ————. Credit, 1 course.
Five hours a week.
Fall Quarter.

A careful study is made of Old English grammar and syntax, and the language of the older period is considered in its relation to present-day English. A considerable amount of Anglo-Saxon is read.

83. CHAUCER.

Professor ————. Credit, 1 course.
Five hours a week.

No previous training in Old or Middle English is required. The work of the course will consist chiefly of a reading and discussion of Chaucer's works, with only so much of grammar and syntax and of other reading as will be necessary for an understanding and appreciation of Chaucer.

84. MIDDLE ENGLISH LITERATURE: EXCLUSIVE OF CHAUCER.

Professor ————. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*

The main purpose of the course is to acquaint the student with the social, political and religious background of mediæval England. A fuller study will be made of the historical and philological relations of Middle English than in English 83.

Courses Primarily for Graduates

101. BEOWULF.

Professor ————. Credit, 1 course.
Five hours a week.

The Old English Epic is studied in detail; grammar and syntax are reviewed, and some attention is paid to the relation of the Old English Epic to Germanic epic material.

110. SPENSER AND HIS AGE.

Professor Greenlaw. Credit, 1 course.
Prerequisite, English 41 or 42. *Five hours a week.*

112-113. STUDIES IN SEVENTEENTH CENTURY LITERATURE.

Professor Hanford. Credit, 1 course.
Prerequisite, English 45 or an equivalent. *Three hours a week.*
Winter and Spring Quarters.

Special problems in relation to Milton and his contemporaries.

117. ASPECTS OF THE ROMANTIC MOVEMENT.
PROFESSOR HANFORD. Credit, 1 course.
Five hours a week.
Spring Quarter.

This course is a continuation of English 51 for students who wish to pursue a more systematic study of the origins and development of the Romantic Movement. It includes consideration of the continental relations of English Romanticism, an analysis of its various elements, and a discussion of the classical and romantic ideals of art. This course assumes a knowledge of the materials of English 51 but may be taken independently by properly qualified students.

121. SEMINAR: CRITICISM.
PROFESSOR FOERSTER. Credit, 1 course.
Five hours a week.
Fall Quarter.

This course will aim (1) to relate to the wisdom of the past representative contemporary solutions of some problems of modern thought, (2) to foreshadow the necessary tendencies of literature and thought in the future. Emphasis will fall on the religious, philosophical and ethical aspects of the literature studied.

125-126-127. DRAMATIC COMPOSITON: ADVANCED COURSE.
PROFESSOR KOCH. Credit, 3 courses.
Five hours a week.
Fall, Winter and Spring Quarters.

This course is designed primarily for Graduates who have completed with distinction Course 31-32-33 or its equivalent. Besides the writing of original plays, some attention is given to the theory and practice of dramatic technique.

132-133. SEMINAR.
PROFESSOR GREENLAW. Credit, 1 course.
Three hours a week.
Winter and Spring Quarters.

The principles and method of the higher study of English. A general introduction to advanced study of English with a series of simple problems in bibliography, literary history, and criticism. Near the end of the second quarter there will be a study of the method and content of the English course in High Schools and elementary college courses.

141. SEMINAR.
Research in a special field under the direction of a member of the Department.

DEPARTMENT OF GEOLOGY

*Collier Cobb, A.M., Sc.D., *Professor of Geology and Mineralogy.*
Joseph Hyde Pratt, Ph.D., *State Geologist, Professor of Economics.*
William Frederick Prouty, Ph.D., *Professor of Stratigraphic Geology.*
Walter Bryan Jones, A.M., *Instructor in Geology.*

Teaching Fellows in Geology, 1920-1921

Josiah Smith Babb, A.B.
William Horace Butt, A.B.

Assistants in Geology, 1920-1921

Henry Spurgeon Boyce. Burgin Edison Lohr.
Samuel Baylor Lee. James Bennett Miller.

(For description of Geological Laboratories, see page 43.)

Courses for Undergraduates

1-2. INTRODUCTION TO GEOLOGY.

Professors Prouty and Messrs. Babb and Butt, and Assistants.
Sophomore, Junior and Senior elective.

Credit, 2 courses.
Five hours a week.
Fall and Winter Quarters.
Laboratory fee, $3.00 a quarter.

Lectures with laboratory and field work; laboratory work in the first quarter on common minerals and rocks, and map interpretation; in the second quarter on geological folios and the more common fossils. The first quarter deals with physical geology, with physiographic processes and their results; the second quarter is a study of the outlines of historical geology.

3-4. MINERALOGY.

Mr. Jones.
Junior and Senior elective.
Prerequisites, Geology 1-2, and Chemistry, 1-2.

Credit, 2 courses.
Five hours a week.
Fall and Winter Quarters.
Laboratory fee, $5.00 a quarter.

Crystallography, physical and chemical properties of minerals, blow-pipe analysis; lectures, laboratory work and field work.

5-6. For description of Course 5-6, see School of Commerce.

* Absent on leave 1920-1921 on the Kenan Foundation.

7. PRINCIPLES OF GEOLOGY.

PROFESSOR COBB and Assistant.	Credit, 1 course.
	Five hours a week.
Junior and Senior elective.	*Fall Quarter.*
Prerequisite, Geology 1-2.	*Laboratory fee, $3.00.*

Principles of Geology, including History of Geological Science; Lectures, field work and library work, with reports; including a report on the surficial geology of a selected area at a distance from Chapel Hill.

21-22. INDUSTRIAL AND COMMERCIAL GEOGRAPHY.

PROFESSOR COBB and Assistant.	Credit, 2 courses.
	Five hours a week.
Senior elective.	*Fall and Winter Quarters.*
	Laboratory fee, $2.50 a quarter.

Lectures, library work and laboratory work. The course deals with man's interaction with his varying environment in the development of industries, and with the geographic conditions of different countries as giving rise to commerce.

25. ADVANCED WORK IN PHYSIOGRAPHY.

PROFESSOR COBB.	Credit, ½ course.
Prerequisite, Geology 1-2.	*Three hours a week.*
Junior and Senior elective.	*Spring Quarter.*
	Laboratory fee, $2.00.

Lectures, field work and laboratory work, dealing in detail with physiographic processes and their results, geomorphology. An extended field study is required in this course.

Courses for Graduates and Advanced Undergraduates

8-9. FIELD GEOLOGY AND STRATIGRAPHY.

PROFESSOR PROUTY and Assistants.	Credit, 2 courses.
	Five hours a week.
Prerequisite, Geology 1-2.	*Fall and Winter Quarters.*
	Laboratory fee, $3.50 a quarter.

Lectures, with laboratory, field work, and conferences. The first quarter deals with field and structural geology; the second quarter with stratigraphy, palaeontology and historical geology.

10. OIL GEOLOGY.

Professor Prouty. Credit, 1 course.
Prerequisite, Geology, 8-9. *Five hours a week.*
Spring Quarter.
Laboratory fee, $3.50.

Lectures, laboratory work and reports. A study of the origin, distribution and accumulation of petroleum, with special relation to the oil fields of North America; methods of prospecting for oil, recovery of oil, and valuation of oil properties.

11. NON-METALLIC MINERAL DEPOSITS.

Professor Prouty and Mr. Jones. Credit, 1 course.
Five hours a week.
Prerequisites, Geology, 1-2, 3-4, and Chemistry, 1-2. *Fall Quarter.*
Laboratory fee, $3.50.

Lectures, laboratory work and reports; coal, clays, building stone, cement materials, fertilizers, underground waters, etc.; occurrence, methods of exploitation, production and conservation of mineral resources.

12. ORE DEPOSITS.

Professor Prouty and Mr. Jones. Credit, 1 course.
Five hours a week.
Prerequisites, Geology 1-2, 3-4, and Chemistry 1-2. *Winter Quarter.*
Laboratory fee, $3.50.

Lectures, laboratory work and reports. The fundamental principles of Geology and Chemistry involved in the formation of ore deposits; a consideration of specific occurrences of iron, copper, zinc, lead, tin, aluminum, the precious metals, and the rarer metals.

13. PETROLOGY.

Professor Prouty and Assistant. Credit, ½ course.
Three times a week.
Prerequisites, Geology 1-2, 3-4, and Chemistry 1-2. *Winter Quarter.*
Laboratory fee, $3.50.

Laboratory work on rocks; a study of the origin, classification and distribution of rocks.

14. PETROGRAPHY.

PROFESSOR PROUTY. Credit, ½ course.
Prerequisites, Geology 1-2, 3-4, and Chemistry 1-2. *Three times a week.* *Spring Quarter.* *Laboratory fee, $3.50.*

Lectures, laboratory work on the microscopic physiography of the rock-forming minerals; optical mineralogy and the theory of light as applied to the polarizing microscope; minerals as observed in thin rock sections.

23-24. ORIGIN AND NATURE OF SOILS.

PROFESSOR COBB and Assistants. Credit, 2 courses.
Prerequisites, Geology 1-2, 3-4, Chemistry 1-2. *Five hours a week.* *Winter and Spring Quarters.* *Laboratory fee $2.50 a quarter*

Lectures, field work, laboratory work and theses. The course is given primarily for men who wish to enter the State or Federal Soil Surveys or to engage in farming. Students in this course are expected to keep Saturday open for field work.

42. ADVANCED WORK IN MINERALOGY.

PROFESSOR PRATT. Credit, ½ course.
Prerequisites, Geology 3-4, 11-12. *Three hours a week.* *Spring Quarter.*

43. ADVANCED COURSE IN MINERAL AND ORE DEPOSITS.

PROFESSOR PRATT. Credit, ½ course.
Prerequisite, Geology 42. *Three hours a week.* *Winter Quarter.*

Lectures, supplemented by laboratory and field work.

51-52-53. ADVANCED FIELD WORK AND SPECIAL RESEARCH IN GEOLOGY AND GEOGRAPHY.

PROFESSORS COBB and PROUTY and Assistants. Credit, 3 courses. *Five hours a week.* *Fall, Winter and Spring Quarters.*

Problems and work adapted to the special needs of the student. For Graduates and for specially prepared Seniors. Students in this course are expected to keep Saturday open for field work.

Courses Primarily for Graduates

104-105-106. SPECIAL RESEARCH IN GEOLOGY AND GEOGRAPHY.

Professors Cobb and Prouty. Credit, 3 courses. *Fall, Winter and Spring Quarters.*

The student is expected to devote six weeks to work in the field, accompanied by the instructor, and to work up his results during the first quarter of the college year. The entire research constitutes three courses.

107-108-109. SPECIAL RESEARCH.

Credit, 3 courses. *Fall, Winter and Spring Quarters.*

Special Research in economic geology, in historical geology, or in petrology and petrography, two quarters of which must be taken as a seminar course.

The Geological Seminar meets fortnightly for the review and discussion of current geological literature, and for the presentation of original papers.

DEPARTMENT OF GERMANIC LANGUAGES

Walter Dallam Toy, M.A., *Professor of the Germanic Languages and Literatures.*

Kent James Brown, Ph.D., *Associate Professor of German.*

John Theodore Krumpelmann, A.M., *Instructor in German.*

Courses for Undergraduates

1-2. ELEMENTARY COURSE.

Professor Toy and Mr. Krumpelmann. Credit, 2 courses. *Five hours a week. Fall and Winter or Winter and Spring Quarters.*

Grammar; written and oral exercises; translation; sight reading. This course may be counted for credit towards the degree by those only who have fulfilled the entrance requirement in two other foreign languages, and provided it is followed by German 3-4.

3-4. INTERMEDIATE COURSE.

Professor Brown and Mr. Krumpelmann. Credit, 2 courses. *Five hours a week. Fall and Winter Quarters.*

Freshman and Sophomore elective.

Prerequisite, German 1-2.

Translation, sight reading, composition, grammar, oral exercises.

11. INTERMEDIATE COURSE.

PROFESSOR BROWN. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Prerequisite, German 3-4. **Spring Quarter.*

Practice in writing and speaking German.

21. ADVANCED COURSE.

PROFESSOR TOY. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.* *Fall or Winter Quarter.*
Prerequisite, German 3-4.

Lessing; Minna von Barnhelm; Schiller; Die Jungfrau von Orleans.

22. ADVANCED COURSE.

PROFESSOR TOY. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.* *Winter or Spring Quarter.*
Prerequisite, German 3-4.

Wilhelm Tell; Gœthe; Iphigenie auf Tauris, or Egmont.

23. ROMANTICISM IN GERMANY.

PROFESSOR TOY. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.* *Spring Quarter.*
Prerequisite, German 3-4.

Lectures, reading of selected texts.

25-26. GERMAN LITERATURE IN THE NINETEENTH CENTURY SINCE GOETHE'S DEATH.

PROFESSOR BROWN. Credit, 2 courses.
Sophomore, Junior and Senior elective. *Five hours a week.* *Fall and Winter or Winter and Spring Quarters.*
Prerequisite, German 3-4.

Lectures and reading of representative works.

Courses 21-22, 23, 25-26, are parallel in grade. They present an introduction to the study of German literature.

* NOTE.—Courses 11, 41-42, 43-44, 45, 101, 103, 107, will be given, if they are desired by a sufficient number of students. In any case the department reserves the right to withdraw a course for which the registration is very small.

Courses for Graduates and Advanced Undergraduates

41-42. GOETHE'S LIFE AND WORKS.

PROFESSOR BROWN. Credit, 2 courses.
Prerequisite, German 21, or 22, or 23, or 25-26. *Five hours a week.* **Two Quarters.*

Lectures, reading, reports. Gotz von Berlichingen, Werthers Leiden, Tasso, Gedichte, Hermann und Dorothea, Dichtung und Wahrheit. References: Scherer's and Francke's histories of German literature. English and German works on Gœthe's life. This course may be elected only after consultation with the instructor.

43-44. GOETHE'S FAUST.

PROFESSOR TOY. Credit, 2 courses.
Prerequisites, German 21, or 22, or 23, or 25-26. *Five hours a week.* **Two Quarters.*

Gœthe: Faust, Parts I and II. This course may be elected only after consultation with the instructor.

45. KLEIST AND HEBBEL.

PROFESSOR BROWN. Credit, 1 course.
Prerequisites, German, 21, or 22, or 23, or 25-26. *Five hours a week.* **One Quarter.*

Reading and interpretation of selected dramas; lectures and reports. This course may be elected only after consultation with the instructor.

Courses Primarily for Graduates

101. GOTHIC.

PROFESSOR TOY. Credit, 1 course.
Prerequisites, German 21, or 22, or 23, or 25-26. *Five hours a week.* **One Quarter.*

Braune's *Gotische Grammatik;* selected parts of Paul's *Grundriss der Germanischen Philologie.* Introduction to Germanic Philology.

---

* NOTE.—Courses 11, 41-42, 43-44, 45, 101, 103, 107, will be given, if they are desired by a sufficient number of students. In any case the department reserves the right to withdraw a course for which the registration is very small.

103. OLD HIGH GERMAN.

PROFESSOR TOY. Credit, 1 course.
Prerequisites, German 21, or 22, or 23, or 25-26. *Five hours a week.* **One Quarter.*

Braune's *Althochdeutsche Grammatik;* Braune's *Althochdeutsches Lesebuch.*

107. MIDDLE HIGH GERMAN.

PROFESSOR BROWN. Credit, 1 course.
Prerequisites, German 21, or 22, or 23, or 25-26. *Five hours a week.* **One Quarter.*

A certificate is granted to a student who has completed with credit any four courses exclusive of Course 1-2.

DEPARTMENT OF GREEK

WILLIAM STANLY BERNARD, A.M., *Professor of Greek.*

Courses for Undergraduates

1-2. BEGINNERS GREEK.

PROFESSOR BERNARD. Credit, 2 courses.
Five hours a week.
Fall and Winter Quarters.

A course for students who have had no opportunity of studying Greek in the preparatory schools. This course may be counted for credit towards the degree by those who have fulfilled the entrance requirements in two other foreign languages, and provided it is followed by Greek 3-4.

3-4. INTERMEDIATE GREEK.

PROFESSOR BERNARD. Credit, 2 courses.
Freshman elective. *Five hours a week.*
Prerequisite, Greek 1-2. *Fall and Winter Quarters.*

(1) Greek prose. A course continuing Greek 1-2. Xenophon, *Anabasis, Symposium;* Lycias, *Selected Speeches;* (2) Homer *Iliad,* Books I, II, III, and Odyssey, Book VI.

---

* NOTE.—Courses 11, 41-42, 43-44, 45, 101, 103, 107, will be given, if they are desired by a sufficient number of students. In any case the department reserves the right to withdraw a course for which the registration is very small.

Students who desire to take any of these courses are advised to confer in advance with the instructors concerned.

5. PLATO.
Professor Bernard. Credit, 1 course.
Sophomore elective. *Five hours a week.*
Prerequisite, Greek 3-4. *Spring Quarter; on application.*
Apology and Crito with selections from the other Socratic dialogues. Lectures on Greek life, politics, religion and literature.

6. DRAMA.
Professor Bernard. Credit, 1 course.
Sophomore elective. *Five hours a week.*
Prerequisite, Greek 3-4. *Spring Quarter, on application.*
Euripides, Alcestis; Aristophanes, Frogs. Lectures on the drama.

11. HOMER.
Professor Bernard. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.*
Spring Quarter, on application.
Prerequisite, Greek 3-4.
Rapid Reading of entire Odyssey with Homeric Study.

Courses for Graduates and Advanced Undergraduates

21-22. GREEK DRAMA.
Professor Bernard. Credit, 2 courses.
Prerequisite, Greek 6. *Five hours a week.*
Two Quarters.
An extended reading and study of the Greek drama with lectures on the origin, history and structure of the drama.

23-24-25. GREEK DRAMA IN ENGLISH TRANSLATION.
Professor Bernard. Credit, 1½ courses.
Three hours a week.
Fall, Winter and Spring Quarters.
A course designed to embrace the origin, development, technique and content of the entire Greek Drama, with emphasis on the tragedy as one interpretation of Greek life and thought as a contribution to world progress.

43-44. THE GREEK NEW TESTAMENT.
Professor Bernard. Credit, 2 courses.
Prerequisite, Greek 3-4. *Five hours a week.*
Two Quarters, on application.
The Acts of the Apostles, study of grammar and diction, comparison with English versions; the Gospels, with selections from the Epistles; the principles of textual criticism; sources and history of the Greek text and the versions.

61-62. CLASSICAL ARCHAEOLOGY.

PROFESSOR BERNARD. Credit, 2 courses.
Five hours a week.
Two Quarters.

History and Principles of Greek and Roman architecture, sculpture, painting, with some account of the minor arts. Lectures with prescribed reading.

This course is the same as Latin 61-62.

Courses Primarily for Graduates

101. SEMINAR.

PROFESSOR BERNARD.

The critical study of an author or period. During 1921-1922 this study will be directed to the solution of one of the numerous syntactical problems of the language of the New Testament.

DEPARTMENT OF HISTORY AND GOVERNMENT

JOSEPH GREGOIRE DEROULHAC HAMILTON, Ph.D., *Kenan Professor of History and Government.*

HENRY MCGILBERT WAGSTAFF, Ph.D., *Professor of History.*

WILLIAM WHATLEY PIERSON, JR., Ph.D., *Professor of History and Government.*

FRANK PORTER GRAHAM, M.A., *Assistant Professor of History.*

Teaching Fellows in History, 1920-1921

KEENER CHAPMAN FRAZER, A.B.

LEE DEWITT MARTIN, A.B.

History

Courses for Undergraduates

1-2. FOUNDATIONS OF MODERN HISTORY.

PROFESSORS HAMILTON, WAGSTAFF, PIERSON and GRAHAM. Credit, 2 courses.
Five hours a week.
Fall and Winter and Winter and Spring Quarters.

Required of all Freshmen.

A general course dealing with the fundamental factors in modern civilization in Europe and the United States. The emphasis of the course will rest upon the commercial revolution, European expansion, the Protestant Revolt, colonial and dynastic rivalry, the Old Regime, the French Revolution, the industrial

revolution, the rise of democracy, the role of nationalism, modern imperialism, and modern international relations. Lectures, text-books and readings.

3-4. ENGLISH HISTORY.

Professor Wagstaff. Credit, 2 courses.
Sophomore, Junior and Senior elective. *Five hours a week.* *Fall and Winter Quarters.*

The purpose of this course is to convey a good working knowledge of English history and broaden it into a survey of the part the Anglo-Saxon race has played in world history. Text-book, readings, and lectures.

7-8. AMERICAN HISTORY.

Professor Graham. Credit, 2 courses.
Sophomore, Junior and Senior elective. *Five hours a week.* *Fall and Winter Quarters.*

A general survey of the history of the United States: European background, discovery and exploration, colonization, revolution, independence, federation, western expansion, democracy, slavery, civil war, reconstruction, business and politics, progressive movement, and world politics. Lectures, text-books, and readings.

9-10. HISPANIC-AMERICAN HISTORY.

Professor Pierson. Credit, 2 courses.
Sophomore, Junior and Senior elective. *Five hours a week.* *Fall and Winter Quarters.*

A careful study of the history, geography, political and social institutions, and the economic development and possibilities of Hispanic-American countries. In the fall quarter a study is made of the Spanish and Portuguese colonial systems and of the movements and wars for independence; in the winter quarter attention is directed to the development of republics, the struggle for political stability, the exploitation of resources, and the course of international relations. Sophomores may take this course only with the approval of the instructor.

Courses for Graduates and Advanced Undergraduates

11-12. MEDIAEVAL EUROPE.

Professor Wagstaff. Credit, 1 course.
Three hours a week.
Fall and Winter Quarters.

The development of Europe and its civilization from the decline of the Roman Empire to the end of the fifteenth century. Text-books, readings, and lectures.

14. MODERN EUROPE.

PROFESSOR WAGSTAFF. Credit, 1 course.
Five hours a week.
Spring Quarter.

A study of modern and contemporary Europe from the angle of the primary forces that shaped the life of European nations during the past hundred and fifty years. Text-book, readings, and lectures.

15-16. CLASSICAL HISTORY.
(To be omitted in 1921-1922).

22. THE PROTESTANT REVOLT.

PROFESSOR PIERSON. Credit, 1 course.
Five hours a week.
Spring Quarter.

A study of the religious, intellectual, political, and economic aspects of the Protestant Revolt, with detailed consideration of: the sixteenth century organization and criticism of the Catholic Church; the religion and dogmas of Luther, Zwingli, Calvin, Knox, and Cranmer; the influence of nationalism and absolutism on the revolution; the Catholic counter-reformation; and the establishment of state churches.

23. THE FRENCH REVOLUTION AND THE NAPOLEONIC PERIOD.
(To be omitted in 1921-1922).

28. THE FEDERAL PERIOD.

PROFESSOR WAGSTAFF. Credit, 1 course.
Five hours a week.
Winter Quarter.

American History through the period 1789-1861. Special emphasis in this course is laid upon the struggle of the American people to adjust to the federal principle in the Constitution. Text-books, readings, and lectures.

29. CIVIL WAR AND RECONSTRUCTION.

PROFESSOR HAMILTON. Credit, 1 course.
Five hours a week.
Spring Quarter.

A course dealing with the more important constitutional political and economic phases of the period from 1861 to 1876. Lectures, readings, and reports.

30. CONTEMPORARY AMERICAN HISTORY.

PROFESSOR PIERSON. Credit, 1 course.
Five hours a week.
Spring Quarter.

A general course dealing with political and social relations in the United States from the close of Reconstruction to the beginning of the World War. Lectures, text-books, and readings.

Courses Primarily for Graduates

100-101-102. NORTH CAROLINA HISTORY.

PROFESSOR HAMILTON. Credit, 1½ courses.
One hour a week.
Fall, Winter and Spring Quarters.

A seminar course on the social, economic and political history of the State of North Carolina. The course continues throughout the year, a weekly conference being held for the presentation of reports and discussion.

103-104-105. INTER-AMERICAN RELATIONS.

PROFESSOR PIERSON. Credit, 1½ courses.
Perequisite, History, 9-10. *One hour a week.*
Fall, Winter and Spring Quarters.

A research course concerned with the diplomatic relations of the United States and the Hispanic-American countries. Some particular aspect will be selected for investigation. Lectures and reports.

109. SEMINAR COURSE.

Credit, 1 or 2 courses.

A research course in a special field under the direction of a member of the department.

Government

Courses for Undergraduates

1-2. COMPARATIVE GOVERNMENT.

Professor HAMILTON. Credit, 2 courses.
Sophomore, Junior and Senior elective. *Five hours a week.*
Fall and Winter Quarters.

In this course an intensive study will be made of the governmental and social institutions of the leading states of the modern world. The first quarter will be devoted to the treatment of the governments of Great Britain, the British Empire, and

the United States. In the second quarter the chief emphasis will be placed upon those of the important countries of Continental Europe. Text-books, lectures, discussions, and readings.

3. GOVERNMENT AND BUSINESS.

PROFESSOR HAMILTON. Credit, ½ course.
Three hours a week.
Spring Quarter.

A brief course dealing with the relations of modern governments to agriculture, industry and commerce. After tracing the historical development of these relations for the past century, the remainder of the course will be devoted to an investigation of the purposes and principles underlying present-day conditions. *Open only to students in the School of Commerce and those receiving a permit from the instructor.*

Courses for Graduates and Advanced Undergraduates

5-6. THE ELEMENTS OF POLITICAL SCIENCE.

PROFESSOR PIERSON. Credit, 2 courses.
Five hours a week.
Fall and Winter Quarters.

A general course in which a study is made of the principles of political science and of the important theories respecting the nature, origin, forms, and ends of the state and of government. An examination of the literature of the subject will be made, supplemented by students' reports on selected political theorists. Lectures, text-books, and readings.

8. THE CONSTITUTION OF THE UNITED STATES.
(To be omitted in 1921-1922).

9-10. MODERN MUNICIPAL GOVERNMENT.
(To be omitted in 1921-1922).

11. AMERICAN STATE GOVERNMENT.

PROFESSOR HAMILTON. Credit, 1 course.
Five hours a week.
Fall Quarter.

A course dealing with the origins, development, and methods of the state governments. In connection with the course will be a special study of the government of North Carolina.

15-16. CONTEMPORARY PROBLEMS OF CITIZENSHIP.

Professors Hamilton, Knight and Pierson. Credit, 1 course. *Three hours a week. Winter and Spring Quarters.*

A study of the problems of citizenship in their economic, social, political and intellectual aspects. The methods of the course will be a cooperative analysis and discussion of such problems participated in by students and instructors.

Courses Primarily for Graduates

100-101-102. AMERICAN POLITICAL THEORY.

Professor Pierson. Credit, 1½ courses. *One hour a week. Fall, Winter and Spring Quarters.*

A course respecting the political philosophy that has been developed in the United States. A seminar dealing with some selected phase. Lectures and reports.

103-104-105. THE AMERICAN CONSTITUTION.

Professor Wagstaff. Credit, 1½ courses. *One hour a week. Fall, Winter and Spring Quarters.*

An inquiry into the sources of the American Constitution and a study of its application and development under changing conditions of the American people. Research in special topics. Lectures, readings, and reports.

106-107-108. MODERN INTERNATIONAL RELATIONS.

Professor Hamilton. Credit, 1½ courses. *One hour a week. Fall, Winter and Spring Quarters.*

A conference course dealing with the history and methods of modern international relations. Special emphasis will be laid upon specified topics, such as modern imperialism, the influence of nationalism, and the movement for international organization.

109. SEMINAR COURSE.

Credit, 1 or 2 courses.

A research course in a special field under the direction of a member of the department.

A certificate is granted to a student who has completed with credit the equivalent of nine courses in History and Government.

DEPARTMENT OF LATIN

GEORGE HOWE, Ph.D., *Professor of the Latin Language and Literature.*

GEORGE KENNETH GRANT HENRY, Ph.D., *Assistant Professor of Latin.*

GUSTAVE ADOLPHUS HARRER, Ph.D., *Assistant Professor of Latin.*

HARRY FRANKLIN LATSHAW, A.B. in Ed., *Instructor in Latin.*

Courses for Undergraduates

1-2. READINGS IN ROMAN LITERATURE.

PROFESSORS HOWE, HENRY, HARRER and MR. LATSHAW. Credit, 2 courses. *Five hours a week.*
Freshman elective. *Fall and Winter or Winter and Spring Quarters.*

Course 1 is concerned with the translating of Latin, with work in vocabulary, and with a review of the chief principles of grammar. In Course 2 emphasis is placed on content and literary form.

3. SELECTIONS FROM PLINY AND TACITUS.

PROFESSORS HOWE, HENRY, HARRER and MR. LATSHAW. Credit, 1 course. *Five hours a week.*
Sophomore elective. *Fall or Spring Quarter.*
Prerequisite, Latin 1-2.

The course is concerned with the translating of Latin; but the emphasis is also placed on the literary values of the works read, and on the political and social conditions of the period.

4. ROMAN LAW.

PROFESSOR HARRER. Credit, 1 course.
Prerequisite, Latin 1-3. *Five hours a week.*
Winter Quarter.

This course deals with the general principles and the historical development of Roman law. The work will consist of the translation of selected passages in legal literature, readings and lectures. This course is a Sophomore requirement of A.B.-LL.B. students, and is open to other students who have satisfied the prerequisite.

5. ROMAN SATIRE.
Professor Henry. Credit, 1 course.
Sophomore elective. *Five hours a week.*
Prerequisite, Latin 1-2. *Winter Quarter.*
Readings from Horace, Petronius, Persius, Juvenal; occasional lectures.

6. CICERO'S LETTERS.
Professor ————. Credit, 1 course.
Sophomore elective. *Five hours a week.*
Prerequisite, Latin 1-2. *Spring Quarter.*
The reading of selected letters and discussions of the history and politics of the time.

10. LATIN LITERATURE IN ENGLISH TRANSLATION.
Professor Howe. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.* *Spring Quarter.*
Lectures and readings. This course is open to students who have no knowledge of the Latin language.

11. TEACHER'S COURSE.
Professor Henry. Credit, 1 course.
Prerequisite, Latin 1-3. *Five hours a week.* *Fall Quarter.*
Pronunciation, forms, syntax, prosody, the art of translating, methods of instruction.

15. THE BEGINNINGS OF PROSE FICTION.
Professor ————. Credit, 1 course.
Junior and Senior elective. *Five hours a week.* *Spring Quarter.*
A study of the origins and development of story-writing in ancient times, with emphasis on the novel. Readings from the Greek Romances, Petronius and Apuleius. Knowledge of Greek and Latin not required.

17. GREEK HISTORY.
Professor ————. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.* *Fall Quarter.*
A general course extending from the earliest times to the Roman Conquest. Emphasis will be laid on the development of the Spartan and Athenian States.

18. ROMAN HISTORY.

PROFESSOR ————————. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.* *Winter Quarter.*

A general course. Emphasis will be laid on the social and political development of Rome and the influence of the Roman Empire upon modern European civilization.

Courses for Graduates and Advanced Undergraduates

12. ROMAN HISTORICAL AND BIOGRAPHICAL LITERATURE.

PROFESSOR HENRY. Credit, 1 course.
Prerequisite, Latin 1-3. *Five hours a week.* *Fall Quarter.*

A study of the structure, purposes, and methods of the most significant works. Translation and readings in English from the literature; reports; lectures.

13. ROMAN DRAMATIC LITERATURE.

PROFESSOR HENRY. Credit, 1 course.
Prerequisite, Latin 1-3. *Five hours a week.* *Winter Quarter.*

A study of the historical development of Latin comedy and tragedy; reading of selected plays.

14. THE LATIN EPIC.

PROFESSOR HOWE. Credit, 1 course.
Prerequisite, Latin 1-3. *Five hours a week.* *Spring Quarter.*

The history of Latin Epic; detailed study of the Æneid.

16. EARLY CHRISTIAN LITERATURE.

PROFESSOR HARRER. Credit, 1 course.
Prerequisite, Latin 1-3. *Five hours a week.* *Spring Quarter.*

A study of selected parts of the writings of the early Roman Christians and of their relations to the Roman state and civilization.

19. CAESAR.

PROFESSOR HARRER. Credit, 1 course.
Prerequisite, Latin 1-3. *Five hours a week.* *Fall Quarter.*

The political career and literary works of Caesar will be studied, and selections from the Gallic and Civil Wars will be translated.

30. CICERO'S ORATIONS.

Professor Howe. Credit, 1 course.
Prerequisite, Latin 1-3. *Five hours a week.*
Winter Quarter.

A study of Cicero, as statesman and advocate. Selected letters, as well as a number of the orations, will be read.

31. LATIN PROSE LITERATURE.

Professor Henry. Credit, 1 course.
Prerequisite, Latin 1-3. *Five hours a week.*
Spring Quarter.

The course is concerned mainly with the study of the epistolary and historical literature; reading of selected letters from Cicero and Pliny, and of passages from Livy, Tacitus, and other historians.

(In courses 14, 19, 30, the needs of High School Teachers of these authors are considered.)

A certificate is granted to a student who has completed with credit courses 1, 2, 3, 11, and 3 elective courses.

Courses Primarily for Graduates

101-102-103. LATIN SEMINAR.

Professors Howe and Harrer. Credit, 3 courses.
Five hours a week.
Fall, Winter and Spring Quarters.

This course is devoted to the study in detail of particular authors or periods in Roman Literature, the subject matter varying from year to year. It involves wide reading in the Latin authors and in the critical literature concerning them, with oral and written reports by the student. Lectures and conferences. For the year 1921-1922: Fall Quarter, Cicero (Professor Howe); Winter Quarter, Roman Elegiac Poets, (Professor Howe); Spring Quarter, Tacitus (Professor Harrer).

104. LATIN EPIGRAPHY.

Professor Harrer. Credit, 1 course.
Five hours a week.
Fall Quarter.

The aim of the course is to acquire facility in the deciphering and translating of inscriptions, to study in detail a selection of significant inscriptions and their value in the field of Roman studies.

105. LATIN PALEOGRAPHY.

PROFESSOR HARRER. Credit, 1 course.
Five hours a week.
Winter Quarter.

The course will include a study of the more important scripts, practice in decipherment, and the methods of textual criticism.

DEPARTMENT OF MATHEMATICS

ARCHIBALD HENDERSON, Ph.D., D.C.L., *Professor of Pure Mathematics.*

JOHN WAYNE LASLEY, Ph.D., *Associate Professor of Mathematics.*

ALLAN WILSON HOBBS, Ph.D., *Associate Professor of Mathematics.*

NORMAN MORTON PAULL, S.B., *Assistant Professor of Drawing.*

ARTHUR SIMEON WINSOR, A.M., *Assistant Professor of Mathematics.*

JOE BURTON LINKER, A.M., *Instructor in Mathematics.*

JAMES BLAINE DAVIS, A.B., *Instructor in Mathematics.*

HERMAN GLENN BAITY, A.B., *Instructor in Mathematics.*

Teaching Fellows in Mathematics, 1920-1921

MICHAEL ARENDELL HILL, JR., A.B.
ROY JAY MORTON, A.B.

Student Assistants in Mathematics, 1920-1921

CLAYTON EDWARDS IRVING JOSEPH STEPHENSON

Courses for Undergraduates

1. COLLEGE ALGEBRA. Credit, 1 course.

MESSRS. BAITY, DAVIS, EDWARDS, HILL, and STEPHENSON. *Five hours a week.*
Every Quarter.

Required of Freshmen.

A general course dealing with exponents, quadratic equations, surds, imaginaries, simple indeterminate equations, progressions, binomial theorem, choice and chance, determinants, graphical methods, transformation of equations, Horner's method of approximation.

2. PLANE AND SPHERICAL TRIGONOMETRY WITH LOGARITHMS.

MESSRS. EDWARDS, LINKER, and MORTON. Credit, 1 course.
Required of Freshmen. *Five hours a week.*
Every Quarter.

A general course dealing with trigonometric functions, unit circle, radian measure, identities, equations, angle sum and difference formulas, with especial attention paid to the solution of triangles, right and oblique, plane and spherical.

1E-2E-3E. UNIFIED MATHEMATICS FOR ENGINEERS.

PROFESSOR WINSOR. Credit, 1 course.
Required of Freshmen in Engineering courses. *Six hours a week.*
Fall, Winter and Spring Quarters.

This course is designed for engineering students and deals in order with college algebra, trigonometry, and analytic geometry. A fundamental purpose of this course is so to co-ordinate these several subjects as to train students to handle readily practical problems in engineering.

3. INTRODUCTORY COURSE IN CO-ORDINATE GEOMETRY.

PROFESSORS HENDERSON and LASLEY. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.*
Prerequisite, Mathematics 1 and 2. *Every Quarter.*

A course in the fundamentals of analytic geometry, the straight line, circle, parabola, ellipse, hyperbola, higher plane curves, transformation of co-ordinates, geometry of space.

3E. CO-ORDINATE GEOMETRY FOR ENGINEERS.

PROFESSOR LASLEY. Credit, 1 course.
Prerequisites, Mathematics 1 and 2. *Six hours a week.*
Fall Quarter.

This course is designed for engineering students with especial emphasis upon applications which arise in engineering practice. The subjects treated are the straight line, circle, parabola, ellipse, hyperbola, transcendental curves, transformation of co-ordinates; in space, the straight line, plane, and the quadric surfaces.

4. INTRODUCTORY COURSE IN THE CALCULUS.

PROFESSORS HENDERSON and LASLEY.
Sophomore, Junior and Senior elective.
Prerequisites, Mathematics 1, 2, and 3.

Credit, 1 course.
Five hours a week.
Every Quarter.

This course deals with differentiation of algebraic and transcendental functions, applications to tangents and rates, Taylor's and Maclaurin's series, maxima and minima, concavity and convexity, integration briefly treated with applications.

4E. INTRODUCTORY COURSE IN CALCULUS FOR ENGINEERS.

PROFESSORS HOBBS and WINSOR.
Required of Sophomores in Engineering Courses.
Prerequisites, Mathematics 1E-2E-3E.

Credit, 1 course.
Six hours a week.
Fall or Winter Quarter.

A brief course in the Differential and Integral Calculus, with particular attention devoted to differentiating and integrating functions that arise in engineering problems. The student is drilled in the formation of equations from given data, the application of the derivative, maxima and minima, rates, partial differentiation, indefinite and definite integrals, integration by parts.

5-6 DESCRIPTIVE GEOMETRY: SHADES, SHADOWS, AND ELEMENTARY PERSPECTIVE.

PROFESSOR PAULL.
Junior and Senior elective.
Required of Civil Engineering Students.

Credit, 1 course.
Three hours a week.
Fall and Winter Quarters.

This course treats of the representation of points, lines and planes in space, and problems relating thereto, also a brief treatment of single and double curved surfaces and intersections, and development of plane and curved figures.

7. INTRODUCTION TO MODERN HIGHER ALGEBRA.

PROFESSOR LASLEY.
Perequisites, Mathematics 3 and 4.

Credit, 1 course.
Five hours a week.
Spring Quarter.

A course designed for those who desire to pursue further the study of algebraic methods; and in particular, for those who

purpose to become teachers. Selected topics of higher algebra are studied, including determinants, polynomials, matrices, invariants, covariants, and quadratic forms.

8. CALCULUS FOR ENGINEERS.

Professor Henderson. Credit, 1 course.
Five hours a week.
Winter Quarter.

This course, especially designed for engineering students, will give a general survey of the principles of the Calculus, with numerous applications to problems arising in engineering practice, such as simple harmonic motion, plotting curves from data, moments of inertia, double and triple integration.

9. ELEMENTARY COURSE IN THE THEORY OF EQUATIONS.

Professors Henderson and Lasley. Credit, ½ course.
Three hours a week.
Sophomore, Junior and Senior elective. *Fall Quarter.*
Prerequisites, Mathematics 1 and 2.

This course is designed for those who purpose teaching mathematics. It deals with the study of the cubic and biquadratic equations, determinants, Horner's method of approximating to the roots of equations, transformations, elimination.

10. INTRODUCTORY COURSE IN DIFFERENTIAL EQUATIONS FOR ENGINEERS.

Professor Henderson. Credit, ½ course.
Prerequisite, Mathematics 4 or 4E. *Three hours a week.*
Spring Quarter.

This course is designed for the benefit of students in physical chemistry, astronomy, higher physics, or advanced engineering. Examples of differential equations occurring in such subjects will be studied.

33-34. PRINCIPLES, HISTORY, AND METHODS OF TEACHING ELEMENTARY MATHEMATICS.

Professor Hobbs. Credit, 1 course.
Prerequisites, Mathematics 1 and 2. *Three hours a week.*

During the first quarter high school and first year college mathematics will be reviewed with special emphasis laid on the essen-

tials. The inherent relationships between Arithmetic, Algebra, and Geometry will be fully exhibited. During the second quarter investigation and study will be made of the methods of instruction in the best modern high schools, and of conditions as they exist in North Carolina.

Courses for Graduates and Advanced Undergraduates

11. GENERAL COURSE IN THE DIFFERENTIAL AND INTEGRAL CALCULUS.

PROFESSOR HENDERSON. Credit, 1 course.
Prerequisite, Mathematics 4 or 4E. *Five hours a week.* *Fall Quarter.*

In this course a thorough drill is given in differentiation and in all processes of integration ordinarily encountered, together with the study of double and triple integration, with numerous applications to lengths, areas, and volumes, employing both rectangular and polar co-ordinates. Simpson's formulas and the subject of radius of curvature are fully treated.

12. ANALYTIC MECHANICS.

PROFESSOR HENDERSON. Credit, 1 course.
Prerequisites, Mathematics 8 and 11. *Five hours a week.* *Winter or Spring Quarters.*

This is a general course in mechanics, embracing the subjects commonly included under the heads of statics and dynamics. The methods of the calculus are fully employed and many examples of practical application, especially to engineering problems, are assigned.

13-14. THEORY OF EQUATIONS. ADVANCED COURSE.

PROFESSORS HENDERSON and LASLEY. Credit, 2 courses. *Five hours a week.*
Prerequisite, Mathematics 4.

Indispensable for students intending to prosecute studies in the higher branches of pure mathematics. Such subjects as the solution of equations of higher degrees, transformations, determinants, elimination, invariants and covariants, and symmetric functions are treated in detail. The student is afforded a survey of the general problem and basic principles of the formation, handling, and evolution of equations.

15-16. DIFFERENTIAL EQUATIONS. ADVANCED COURSE.

Professors Henderson and Hobbs. Credit, 2 courses. *Five hours a week.*

Prerequisites, Mathematics 11 and 12.

This is a course both for students intending to specialize in mathematics and for students in advanced engineering, civil, electrical and chemical. Among the subjects treated are singular solutions, applications to geometry, mechanics, and physics, linear equations with both constant and variable coefficients, equations involving more than two variables, partial differential equations and special forms.

17-18. ADVANCED DIFFERENTIAL AND INTEGRAL CALCULUS.

Professor Henderson. Credit, 1 course.
Prerequisites, Mathematics 11 and 12. *Three hours a week.*

This course completes and rounds out the subject as given in Mathematics 11. Rigor in demonstration is insisted upon. The course will be constituted so as to meet the particular needs of the class—for example, as largely a problem course, or making a special study of complex functions, etc. The acquisition of a thorough knowledge of the calculus is aimed at in this course.

Courses Primarily for Graduates

119-120. VECTOR ANALYSIS.

Professor Henderson. Credit, 1 course.
Prerequisites, Mathematics 11 and 12. *Three hours a week.*

All the fundamental topics of vector analysis are treated in this course. The subject is now being introduced into treatises on the calculus, and hence it is desirable for the graduate student to include it in his general course in the higher mathematics. Because of the brevity and elegance of the demonstrations, the analysis employed is especially useful to the student in the higher physics, civil and electrical engineering.

121-122. MODERN SYNTHETIC GEOMETRY.

Professor Henderson. Credit, 1 course.
Prerequisites, Mathematics 11 and 12. *Three hours a week.*

This course constitutes an introduction to the study of geometry from the projective standpoint. It is a profitable subject of

study, both for the civil engineer and the practical draughtsman. While geometry is here studied from the synthetic standpoint, the contact with analytic treatment and methods is concurrently afforded.

123-124. MODERN ANALYTIC GEOMETRY.

PROFESSOR HENDERSON. Credit, 1 course.
Prerequisites, Mathematics 11 and 12. *Three hours a week.*

This course, outlining the principal modern methods in the analytic treatment of geometry, supplements and greatly extends the introduction to the subject embodied in Mathematics 3. Indispensable to candidates for a post-graduate degree in the higher mathematics. It deals with the principle of quality, transformations, descriptive properties of curves, curve tracing, cross-ratio, homeography, theory of correspondence, invariants, covariants, etc.

125-126. ANALYTIC GEOMETRY OF SPACE.

PROFESSOR HENDERSON. Credit, 1 course.
Prerequisites, Mathematics 11 and 12. *Three hours a week.*

This course treats of the spatial relations from the analytic standpoint. Indispensable to the student of the higher mathematics. It deals with quadric surfaces, envelopes, foci, quadriplanar and tetrahedral co-ordinates, developable surfaces, curves, curvature of surfaces, etc.

127-128. ELEMENTARY ANALYSIS.

PROFESSOR LASLEY. Credit, 1 course.
Prerequisites, Mathematics 17 and 18. *Three hours a week.*

This course begins with a study of the real variable, dealing briefly with the Dedekind-Cantor theory of irrationals as defined by partitions, sequences, sets, and series, the Fourier series and power series. The second quarter will be devoted to a study of functions of a complex variable, notably functions fulfilling the Candry-Riemann condition, mapping, transformations, the Riemann surface, etc. Indispensable to a student desiring to gain a notion of the essentials of modern mathematical thinking.

129-130. ADVANCED ANALYTICAL MECHANICS.

PROFESSOR HENDERSON. Credit, 1 course.
Prerequisites, Mathematics 11 and 12. *Three hours a week.*

This is an extended course in the subject supplementary to Mathematics 12. A thorough treatment is given of Kinetics and Kinematics. In addition, fundamental theorems in hydrostatics and hydrokinetics are treated in detail.

131-132. THE FOUNDATIONS OF GEOMETRY.

PROFESSOR HENDERSON. Credit, 1 course.
Prerequisites, Mathematics 3, 4, and 121-122. *Five hours a week.*

This course is designed to meet the need of students experienced in mathematical thought-processes, who wish to lay broad and solid the basis of their geometrical knowledge. A survey of the contributions of Pasch, Peano, Hilbert and the modern school to our knowledge of the foundations of geometry, study of the axioms, formation of systems of geometry, etc.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

MAJOR FREDERICK WILLIAM BOYE, *Professor of Military Science and Tactics, R.O.T.C.*

FRESHMAN COURSE. FIRST YEAR BASIC

The following is the list of subjects and the scope of each to be followed in the First Year of the Basic Course for the year 1920-21, together with the percentage of total time which will be devoted to each subject:

I. ELEMENTARY SUBJECTS OF MILITARY TRAINING....12%

1. Theoretical Instruction:
   (a) *Principles of the organization and administration of a company.*
   (Requirements necessary and qualifications desirable. Composition of squad, platoon and company groups for administration and control. Functions and responsibilities of group commanders.)
   (b) *Military Hygiene, First Aid and Sanitation.*
   (The Recruit. So much as is necessary for an intelligent understanding of the fundamental importance of physical, mental and moral soundness. Comparative statistics of

physical fitness of American citizens for military service in the World War. Personal Hygiene. Foods and their preparation. Hygiene of the Kitchen, Barracks and Camp. Hygiene of moving troops. The causes of disease. The prevention and control of epidemics. The prevention of mental and nervous diseases. First Aid to the Injured. Resuscitations.

Sanitation of localities. Selection and protection of drinking water. Selection and drainage of camp sites. Disposal of refuse.)

(c) *Military Courtesy and Customs of the Service.*
(Historical derivations of military courtesies and customs of the military service of the United States. Fundamental principles of military discipline. Psychology and management of the American soldier. Relation of discipline to efficiency, capacity and economy of troops in campaign. Historical examples. Parallels in Civil Organizations.)

(d) *Interior Guard Duty.*
(So much as is necessary for an intelligent understanding of the importance and character of the duty.

2. Practical Work:
   (a) *Getting the Unit into shape.*
   (Organization of companies. Assignment to squads. Appointment of leaders.)
   (b) *Practical Application.*
   (Demonstration and Exercises in First Aid to the Injured. Problems and demonstrations on sand table in camp sanitation. Construction of miniature models of camp sites, expedients, etc.)
   (c) *Demonstrations and Tests.*

II. PHYSICAL TRAINING 11%

1. Theoretical Instruction.
   (So much as is necessary for an intelligent understanding of the principles and methods of teaching the subject. Coordination and grouping exercises.)
2. Practical Work:
   (a) *Setting-up Exercises.*
   (Recruit instruction. Trained soldier instruction.)
   (b) *Mass Games and Mass Athletics.*

III. INFANTRY DRILL 60%

1 Theoretical Instruction:

(a) *Close and Extended Order.*
(Principles and methods of close order and extended order to include School of the Soldier, Squad and Platoon.)

(b) *Ceremonies.*
(Principles and minutia of inspections, parades, reviews, etc.)

2. Practical Work.

(a) *Close and Extended Order Drills.*
(School of the Soldier, squad, platoon and company in close order. School of the squad and platoon in extended order.)

(b) *Ceremonies.*
(Participation in such ceremonies as possible.)

IV. INFANTRY WEAPONS AND EQUIPMENT.....17%

1. Theoretical Instruction.

(a) *The Infantry Pack.*
(Description, nomenclature, care and handling. Use of.)

(b) *The Rifle.*
(Description, nomenclature, care and handling. Elements of marksmanship.)

(c) *The Bayonet.*
(Description, nomenclature. So much of the principles and methods of bayonet training as are necessary for an intelligent importance and use of the bayonet.)

2. Practical Work.

(a) *The Infantry Pack.*
(Adjustment. Making Up. Wearing the pack in connection with exercises III, 2a and b. Pitching shelter tents.)

(b) *The Rifle.*
(Taking down and assembling, blindfold test. Preliminary training in marksmanship. Range practice where practicable. Gallery practice. Intercollegiate Comp.)

(c) *The Bayonet.*
(Bayonet Training.)

SOPHOMORE YEAR. SECOND YEAR BASIC COURSE.

The following is the list of subjects and the scope of each to be followed in the Second Year of the Basic Course for the year 1920-21, together with the percentage of total time which will be devoted to each subject:

I. MILITARY SKETCHING AND MAP READING.....40%

1. Theoretical Instruction:
   (a) *Map Reading.*
   (The instruction necessary to enable the student to read maps with facility.)
   (b) *Military Sketching.*
   (The instruction necessary to enable the student to make road, outpost and position sketches with standard accuracy and speed.)

2. Practical Work:
   (a) *Problems in Map Reading.*
   (Demonstration on sand table map. Problems on map. Visibility of points, area.)
   (b) *Sketching.*
   (Necessary practice to enable the student to pass a test for accuracy and speed in road sketch, outpost sketch and position sketch.

II. PHYSICAL TRAINING 5%

1. Theoretical Instruction:
   (So much as is necessary for an intelligent understanding of the principles and the methods of teaching the subject.)

2. Practical Work:
   (a) *Setting-up Exercises.*
   (Recruit and Trained Soldier instruction. Participation with first year students. Sophomores instructing small groups, not exceeding squad. Apparatus exercises where practicable.)
   (b) *Mass Games and Mass Athletics.*
   (Participation with freshmen. Intra-mural contests if possible.)

III. INFANTRY DRILL.....15%

1. Theoretical Instruction:
   (a) *Fundamentals of Leadership.*
   (Bearing, dress, manner and voice of group leaders. How to give and receive orders and commands. Effects of good and bad example. Powers of a N.C.O. and how to use them. Obligations and responsibilities of an N.C.O. and how to meet.)
   (b) *Close and Extended Order.*
   (Infantry Drill Regulations, School of the Company.)
   (c) *Combat.*
   (Principles governing the formations and conduct of the platoon and the company. Applicable portions of Chapter III and IV, P.I.D.R.)

2. Practical Work:
   (a) *Exercises and Demonstrations.*
   (b) *Participation with First Year Students.*
   (Exercise of function of N.C.O. instructing first year students.)
   (c) *Practical Exercises with Unit.*

IV. INFANTRY WEAPONS 20%

1. Theoretical Instruction:
   (a) *The Rifle.*
   (Theory of Fire, Trajectory, etc. Principles of Musketry.)
   (b) *The Automatic Rifle.*
   (Nomenclature, care, characteristics and employment as an Infantry weapon.)
   (c) *The Machine Gun.*
   (Nomenclature, care, characteristics and employment as an Infantry weapon.)

2. Practical Work:
   (a) *The Rifle.*
   (So much of preliminary instruction in markmanship as the individual needs for proficiency. Gallery practice. Range Practice if possible.)

(b) *The Automatic Rifle.*

(Taking Down and Assembling Blindfold Test. Gun Drill. Demonstration Firing.)

(c) *The Machine Gun.*

(Taking Down and Assembling. Blindfold Tests. Gun Drill. Firing if possible.)

V. MINOR TACTICS 20%

1. Theoretical Instruction:

(a) *Covering Detachments.*

(Patrol leading. Advance and Rear Guards. Outposts. Types of formation for Security by day and night. Selection and equipment of troops for the duty.)

2. Practical Work:

(a) *Covering Detachments.*

(Problems and Exercises in patrol leading on sand table and map. Tactical walks. Demonstrations. Participation in tactical exercises with unit.)

Advanced Course

JUNIOR YEAR. FIVE HOURS PER WEEK.

The following is the list of subjects and the scope of each to be followed in the First Year of the Advanced Course for the year 1920-21 together with the percentage of total time which will be devoted to each subject.

I. FIELD ENGINEERING 40%

1. Theoretical Instruction:

(a) *Instruction* to include the principles and methods of military field engineering in all types of trenches and obstacles. Organization of working parties and tasks. Selection of location for trenches. Concealment and camouflage.

(b) *Military Field Engineering Problems.*

(Solution of Military Engineering problems based on (a) above. Demonstrations on sand table. Constructions on sand table. Construction of miniature models of types of trenches and obstacles. Reconnoissance, location and laying out of trenches.)

II. PHYSICAL TRAINING 5%
So much as is necessary for the understanding of the principles and methods of teaching the subjects:

(a) *Setting-up Exercises.*
(b) *Mass Games and Mass Athletics.*

III. INFANTRY DRILL 15%

1. Theoretical Instruction. Practical Instruction.
(a) *School of the Battalion in close order.*
(b) *School of the Regiment in close order.*

IV. INFANTRY WEAPONS 15%

Theoretical and Practical Instruction in the Nomenclature, care and handling of the following weapons. Tactical Use of same.

(a) *The Pistol.*
(b) *Hand and Rifle Grenades.*
(c) *Trench Mortars and One-Pounder Gun.*

V. MINOR TACTICS 25%

1. Theoretical Instruction:
(a) *Offensive and Defensive Combat of Small Units.*
(Combat Reconnaissance. Orders. Deployment. Advancing the Attack. The Fire Attack. The Assault. Position Warfare. Approach Marches. Organization of the Ground. The Company in support, in reserve, and acting alone. Machine Guns. One-Pounder and light mortars. Ammunition supply.)

2. Practical Work:
(Map Maneuvers. War Game. Problems on Map and sand table. Tactical Walks. Participation with unit in tactical exercises. Demonstrations.)

SENIOR YEAR FIVE HOURS PER WEEK.

The following is a list of subjects and the scope of each to be followed in the second year of the advanced course for the year 1920-21 together with the percentage of total time which will be devoted to each subject:

I. MILITARY HISTORY AND POLICY OF THE UNITED STATES 10%

(Important campaigns and battles in the History of the United States and the tactical deductions therefrom. History of the military policy of the United States including the period of the World War. Economic History of the United States and the relations existing in our economic conditions and those of Europe, Asia and South America and its relation to military history.)

II. PHYSICAL TRAINING 5%

(Participation as instructors in all exercises and games as above.)

III. MILITARY LAW AND RULES OF LAND WARFARE.....10%

1. Theoretical Instruction:
   (a) *The Articles of War.*
   (Explained. Relation of the Military to the Civil.)
   (b) *Courts Martial.*
   (Jurisdiction. Organization. Procedure.)
   (c) *Evidence.*
   (So much as is contained in the Manual of Courts Martial on the subject.)
   (d) *Rules of Land Warfare.*
   (General knowledge of the principles.)
2. Practical Work:
   Moot Courts.

V. MINOR TACTICS 40%

Theoretical and Practical Instruction in Minor Tactics. (Problems in Minor Tactics. Map Maneuvers. Problems and illustrative work on map and sand table. War Games. Tactical walks. Participation with unit in tactical exercise.)

VI. ADMINISTRATION 10%

Practical and Theoretical Instruction covering what a lieutenant should know. Management and interior economy of a company.

VII. MUSKETRY 15%

1. Theoretical Instruction:
   (a) *Principles of Musketry.*
   (Range Estimation. Target Designation. Fire Distribution. Communication, signals and transmission of

firing data. Use of cover. Fire discipline. Application of fire. Conduct of fire to include the functions of a company commander.

2. Practical Work:

(a) *Musketry Problems.*
(Exercises with landscape targets. Tactical walks. Firing on auxiliary targets where practicable. Exercises on the map and ground.)

DEPARTMENT OF MUSIC

Paul John Weaver, B.A., A.A.G.O., *Professor of Music.*

2. APPRECIATION OF MUSIC.

Professor Weaver. Credit, ½ course.
Three hours a week.
Fall or Spring Quarter.

An illustrated course primarily for students who have had little or no musical training.

6. SIGHT-SINGING AND EAR-TRAINING.

Professor Weaver. Credit, ½ course.
Three hours a week.
Winter Quarter.

A course in the reading of music notation for beginners.

10-11-12. HISTORY OF MUSIC.

Professor Weaver. Credit, 1½ courses.
Three hours a week.
Fall, Winter and Spring Quarters.

A study of the historical development of music. The work of each term is separate from that of the other terms, and students may enter the course at the beginning of any term.

20-21-22. HARMONY.

Professor Weaver. Credit, 1½ courses.
Three hours a week.
Fall, Winter and Spring Quarters.

A beginner's course in elementary harmony. Prerequisite, ability to read music notation.

Note.—Individual instruction in piano and voice will be offered throughout the school year to any student registered in the University. A fee of $1.00 a lesson is charged. Students may arrange for one or two lessons a week. Registration for this work is made with the instructor, Mr. Thomas Hoffman Hamilton, Assistant Director of Music, and not with the University Registrar. Fees are paid, after registration, to the Bursar. These courses do not carry University credit.

DEPARTMENT OF PHILOSOPHY

HENRY HORACE WILLIAMS, A.M., B.D., *Professor of Philosophy.*

Courses for Undergraduates

10-11-12. LOGIC.

PROFESSOR WILLIAMS. Credit, 1½ courses.
Junior and Senior elective. *Three hours a week.*
Fall, Winter and Spring Quarters.

The study of logic in life; lectures, with text-books.

13-14-15. ETHICS.

PROFESSOR WILLIAMS. Credit, 1½ courses.
Junior and Senior elective. *Three hours a week.*
Fall, Winter and Spring Quarters.

Criticisms and discussions.

16-17-18. PHILOSOPHY.

PROFESSOR WILLIAMS. Credit, 1½ courses.
Junior and Senior elective. *Three hours a week.*
Fall, Winter and Spring Quarters.

A study of the forces that shape life; lectures; theses.

Courses for Graduates and Advanced Undergraduates

19-20-21. PHILOSOPHY.

PROFESSOR WILLIAMS. Credit, 1½ courses.
Three hours a week.
Fall, Winter and Spring Quarters.

A companion course to Philosophy 16-17-18. The aim of the course is to sketch the forces masterful in modern life.

Courses Primarily for Graduates

22-23-24. EPISTEMOLOGY.

PROFESSOR WILLIAMS. Credit, 1½ courses.
Three hours a week.
Fall, Winter and Spring Quarters.

A study of the Critical Philosophy; lectures, theses. First term: Prolegomena and Practical Reason, and the work that prepared the way for Kant. Second term: *Kritik der Reinen Vernunft.*

DEPARTMENT OF PHYSICS

Andrew Henry Patterson, A.M., *Professor of Physics.*
Otto Stuhlman, Jr., Ph.D., *Associate Professor of Physics.*

Assistants in Physics, 1920-1921

Joseph Granbery Tucker.
William Francis Allston.
William Earle Overcash.
James Moffatt Alexander.
Paul Milton Gray.
Abram Haywood Merritt.

(For description of Physical Laboratories, see page 47.)

Courses for Undergraduates

1. GENERAL PHYSICS. PART 1.

Professors Patterson and Stuhlman and Assistants.
Sophomore, Junior and Senior elective.
Prerequisite, Mathematics, 1-2.

Credit, 1 course.
Six hours a week.
Fall or Winter Quarters.
Laboratory fee, $2.50.

Mechanics of solids, liquids and gases; Sound and Heat. Lectures, with text-book (Kimball's College Physics); problems; laboratory work.

2. GENERAL PHYSICS. PART 2.

Professors Patterson and Stuhlman and Assistants.
Sophomore, Junior and Senior elective.
Prerequisite, Mathematics, 1-2.

Credit, 1 course.
Six hours a week.
Winter or Spring Quarter.
Laboratory fee, $2.50.

Light, Electricity and Magnetism. Lectures, with text-book (Kimball); laboratory work.

3-4. ELECTRICITY AND MAGNETISM.

Professor Patterson.
Junior and Senior elective.
Prerequisite, Mathematics, 1-2.

Credit, 1 course.
Three hours a week.
Fall and Winter Quarters.
Laboratory fee, $2.00 a quarter.

A general course, but intended especially for medical students. Lectures, text-book, laboratory work.

14. ASTRONOMY.

PROFESSOR PATTERSON. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Prerequisite, Physics 1-2. *Fall Quarter.*

A general course in descriptive and historical astronomy; lectures and recitations, with use of lantern slides, star-maps, telescope, etc.

Courses for Graduates and Advanced Undergraduates

5. HEAT AND THERMODYNAMICS.

PROFESSOR PATTERSON. Credit, 1 course.
Prerequisites, Physics 1-2, *Five hours a week.*
and Mathematics 4. *Fall Quarter.*

Lectures and laboratory work. (Offered in 1922 and alternate years.)

6. MECHANICS AND WAVE MOTION.

PROFESSOR STUHLMAN. Credit, 1 course.
Prerequisites, Physics 1-2 *Five hours a week.*
and Mathematics 4. *Fall Quarter.*

Lectures and laboratory work. (Offered in 1921 and alternate years.)

7. MODERN ELECTRICAL THEORY.

PROFESSOR PATTERSON. Credit, 1 course.
Prerequisites, Physics 1-2 *Five hours a week.*
and Chemistry 1. *Spring Quarter.*

Lectures and laboratory work; the electron theory, atomic structure, radioactivity, etc.

8. ADVANCED ELECTRICITY AND MAGNETISM.

PROFESSORS PATTERSON or Credit 1 course.
STUHLMAN. *Five hours a week.*
Prerequisites, Physics 1-2 *Spring Quarter.*
and Mathematics 4.

An introduction to the mathematical treatment of these subjects. (Offered in 1921 and alternate years.)

9. OPTICS.

Professor Stuhlman. Credit, 1 course.
Prerequisites, Physics 1-2 and Mathematics 4. *Five hours a week.* *Spring Quarter.*

A treatment of the fundamental principles of geometrical and physical optics; lectures and laboratory work. (Offered in 1921 and alternate years.)

10-11. INTRODUCTION TO MATHEMATICAL PHYSICS.

Professor Stuhlman. Credit, 2 courses.
Prerequisites, Mathematics 4 and 10, or their equivalent. *Five hours a week.* *Winter and Spring Quarters.*

(Offered in 1921 and alternate years.)

12. ADVANCED GENERAL LABORATORY.

Professors Patterson and Stuhlman. Credit, ½ course. *Three hours a week.* *Any Quarter.*

This course affords an opportunity for further training and experimental study in physics not given in other courses.

Courses Primarily for Graduates

115. ATOMIC STRUCTURE.

Professors Patterson or Stuhlman. Credit, 1 course. *Five hours a week.*
Prerequisite, Mathematics 4.

A critical survey of the experimental and theoretical evidence in various branches of physics for the present theories of the structure of atoms and molecules. A reading knowledge of French and German is required.

116. MATHEMATICAL THEORY OF ELECTRICITY AND MAGNETISM.

Professor Stuhlman. Credit, 1 course.
Prerequisites, Mathematics 4 and 10. *Five hours a week.*

General electrostatic theory; ideal electric fields; condensers with homogeneous and non-homogeneous dielectrics; general laws of conduction; thermal effects; magnetostatic fields; electro-magnetic phenomena; electric waves.

117. THEORY OF LIGHT.

PROFESSOR STUHLMAN. Credit, 1 course.
Prerequisites, Mathematics 4 and 10. *Five hours a week.*

1. Geometrical optics. 2. Physical optics. 3. Optical properties of crystals and metals. 4. Magneto-optics and radiation. Reading knowledge of French and German is required.

118. THEORY OF RELATIVITY.

PROFESSOR PATTERSON. Credit, 1 course.
Prerequisites, Mathematics 4 and 10. *Five hours a week.*

A critical study of the experiments leading to the development of the theory or relativity; Einstein's work; study of contemporary articles on the subject. Reading knowledge of German is required.

120. RESEARCH.

PROFESSORS PATTERSON and STUHLMAN.

Intended for applicants for advanced degrees. Experimental work. Subject assigned or approved by the professor in charge. A reading knowledge of French and German is required.

NOTE.—Courses in advanced Analytic Mechanics are offered by the Department of Mathematics.

DEPARTMENT OF PSYCHOLOGY

JOHN FREDERICK DASHIELL, Ph.D., *Professor of Psychology.*

Teaching Fellows in Psychology, 1920-1921

WILLIE ATKINS, A.B.

Assistants in Psychology, 1920-1921

JAMES WOODFIN KEEVER PERRY DAVIS PRIEST

Courses for Undergraduates

1. INTRODUCTORY PSYCHOLOGY.

PROFESSOR DASHIELL. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.*
Fall, Winter or Spring Quarter.

A scientific study of human nature from the point of view of a modified behaviorism. Man is studied as a living organism,

showing original and acquired tendencies that are subject to increasingly efficient conscious self-control leading up to the development of personality. Texts, lectures and demonstrations.

10-11-12. EXPERIMENTAL PSYCHOLOGY.

Professor Dashiell and Mr. Atkins.
Sophomore, Junior and Senior elective.
Prerequisite, Psychology 1.

Credit, 1 course.
Fall, Winter and Spring Quarters.
Laboratory fee, $2.00 a quarter.

An introduction to the methods of the subject. A limited number of standard laboratory experiments are first undertaken, with emphasis upon precision in technique and in results. Later, original research is encouraged; simple problems may be selected with reference to students' special interests. May be begun any quarter and pursued one, two or three quarters. Laboratory work.

Courses for Graduates and Advanced Undergraduates

20. EDUCATIONAL PSYCHOLOGY.

Professor Dashiell and Mr. Atkins.
Prerequisite, Psychology 1.

Credit, 1 course.
Five hours a week.
Fall Quarter.

To consider critically different topics such as original nature of man, heredity versus environment, kinds of learning and factors influencing learning, individual differences, mental hygiene, mental measurement. Texts and lectures.

25. GENETIC PSYCHOLOGY (PHYLOGENETIC.)

Professor Dashiell.
Prerequisite, Psychology 1.

Credit, 1 course.
Five hours a week.
Fall Quarter.

Development of mind in the animal. Study of behavior as analyzable into tropisms, reflexes, instincts, habits, learning capacities, etc. Comparisons between different phyla of animals and between animals and man. Texts, lectures and experiments or observations.

26. GENETIC PSYCHOLOGY (ONTOGENETIC.)

Professor Dashiell.
Prerequisite, Psychology 1.

Credit, 1 course.
Five hours a week.
Winter Quarter.

Development of mind in the child. Original motor and mental tendencies and their organization through development and

training. Special attention to the development of instincts into conscious interests, and to the maturing of intellectual powers. Methods of measuring intelligence will be studied. Texts, lectures and experiments or observations.

30. SOCIAL PSYCHOLOGY.

PROFESSOR DASHIELL. Credit, 1 course.
Prerequisite, Psychology 1. *Five hours a week.*
Winter Quarter.

A brief survey of the subject from two different points of view; analysis of the social factors in individual mentality, as in the development of the Self, and analysis of the psychological factors involved in group phenomena. Attention also to be given to individual differences, race psychology, etc. Readings and lectures.

35. COMMERCIAL PSYCHOLOGY.

PROFESSOR DASHIELL. Credit, 1 course.
Prerequisites, Psychology 1 (and Psychology 30 (Social) advised.) *Five hours a week.*
Spring Quarter.

A survey of psychological aspects of industry and business, and of applications being made from the science of psychology to the latter. The attitude throughout to be scientific and critical. Special needs of students of School of Commerce to be kept in mind. Readings and discussions.

45. ABNORMAL PSYCHOLOGY.

PROFESSOR DASHIELL and MR. ATKINS. Credit, 1 course.
Five hours a week.
Prerequisite, Psychology 1. *Spring Quarter.*

An outline study of main types of mental abnormality. To include: Mental deficiency, typical neuroses, typical insanities, minor abnormalities in daily life, psychoanalytic method, theories of the subconscious, the "occult," etc. Special needs of medical students to be kept in mind. Lectures, readings and discussions.

Courses Primarily for Graduates

101-102-103. EXPERIMENTAL PSYCHOLOGY.

PROFESSOR DASHIELL. Credit, ½ or 1 course.
Fall, Winter and Spring Quarters.
Laboratory fee, $2.00 a quarter.

Opportunity will be offered for the experimental investigation of special problems along the line of the individual student's inter-

ests. Where necessary, adjustment of the work to the needs of graduate students lacking laboratory training in this field can be made.

105. THE PSYCHOLOGY OF JAMES.

Professor Dashiell. Credit, 1 course.
Five hours a week.
Fall Quarter.

An intensive reading of James' "Principles of Psychology" (2 volumes), as the great psychological classic, with discussions in terms of alternative interpretations.

106. CONTEMPORARY PSYCHOLOGICAL TENDENCIES.

Professor Dashiell. Credit, 1 course.
Five hours a week.
Winter Quarter.

A more or less systematic survey of the more outstanding recent and contemporary movements in modern psychology. Readings assigned in the works of Wundt and Titchener, Hall, McDougall and Stout, Thorndike, Pavlov, Watson, Cannon, Freud and Jung, and perhaps others.

107. THE PSYCHOLOGY OF TRAINING.

Professor Dashiell. Credit, ½ course.
Three hours a week.
Spring Quarter.

An analysis of human training; its nature, means, and possibilities. A reading survey will be made of the outstanding experimental work on these lines. The aim will be to get an accurate and scientific notion of the subject, with possibilities of application to various fields of applied psychology, including education and industry.

108. SEMINAR. Credit, ½ course.

Professor Dashiell. *Three hours a week.*
Spring Quarter.

The general subjects will be chosen at the beginning of the quarter, and in view of the special interests of the students. The work will consist of papers by the members of the class, and free discussions. Opportunity will be given for the preliminary reporting of investigations students may have in progress and for helpful discussion thereof.

DEPARTMENT OF ROMANCE LANGUAGES

*WILLIAM MORTON DEY, Ph.D., *Professor of the Romance Languages and Literatures.*

OLIVER TOWLES, Ph.D., *Professor of French.*

STURGIS ELLENO LEAVITT, Ph.D., *Associate Professor of Spanish.*

HERMAN HENRY STAAB, A.M., *Assistant Professor of Romance Languages.*

CHARLES EDWARD GREEN, A.M., *Assistant Professor of Romance Languages.*

HOWARD RUSSELL HUSE, Ph.B., *Assistant Professor of Romance Languages.*

JOHN JAMES DAVIS, B.S., *Assistant Professor of Romance Languages.*

CHARLES INTERVALE SILIN, S.B., *Instructor in French.*

FRANK JOHN HARONIAN, A.B., *Instructor in French.*

French

Courses for Undergraduates

1-2. ELEMENTARY COURSE.

PROFESSORS TOWLES, HUSE, STAAB, GREEN and DAVIS, and MESSRS. SILIN and HARONIAN.

Credit, 2 courses. *Five hours a week. Fall and Winter or Winter and Spring Quarters.*

Essentials of French Grammar. Special attention given to pronunciation. It is aimed to make this course as practical as possible, with much oral work. This course may be counted for credit towards the degree by those only who have fulfilled the entrance requirements in two other foreign languages, and provided it is followed by French 3-4. Course 2 will also be given in the fall of 1921.

3-4. CONTINUATION OF COURSE 1-2.

PROFESSORS TOWLES, HUSE, STAAB, GREEN and DAVIS, and MESSRS. SILIN and HARONIAN.

Credit, 2 courses. *Five hours a week. Fall and Winter or Winter and Spring Quarters.*

Freshman and Sophomore elective.

Reading of modern French literature, frequent composition and dictation. Course 4 will also be given in the fall of 1921.

* Absent on leave 1920-1921 on the Kenan Foundation.

5. ADVANCED COURSE.

Professors Dey and Towles. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week. Fall or Spring Quarter.*
Prerequisite, French 3-4.

Studies in reading and writing French. French phonetics. Reading of representative literature of the Nineteenth Century, with extensive collateral reading.

6. CONTINUATION OF FRENCH 5.

Professors Dey and Towles. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week. Fall or Spring Quarter.*
Prerequisite, French 3-4.

Masterpieces of French literature, with much collateral reading and oral work.

7. FRENCH CONVERSATION AND COMPOSITION.

Professor Huse. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Prerequisite, French 3-4. *Winter Quarter.*

The object of this course is to provide students with an opportunity to acquire practice in spoken French. Discussions in French on subjects of general interest. Composition and outside reading.

9. COMMERCIAL FRENCH.

Professor Staab. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Prerequisite, French 5. *Spring Quarter.*

The object of this course is to give the student practical training in modern French. Newspaper and magazine articles dealing with the life and customs of the country will be read. Practice in social and commercial correspondence. This course will be largely conducted in French.

Courses for Graduates and Advanced Undergraduates

11-12. FRENCH LITERATURE IN THE SEVENTEENTH CENTURY.

Professor Towles. Credit, 2 courses.
Prerequisite, French 6. *Five hours a week. Fall and Winter Quarters.*

Classicism: Moliere, Corneille, Racine, etc. Lectures, reading, reports.

13. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY.

PROFESSOR HUSE. Credit, 1 course.
Prerequisite, French 6. *Five hours a week.*
Fall Quarter.

Voltaire, Montesquieu, Rosseau, les Encyclopédistes. A study of the literary movement of the century and of the origins of romanticism.

15-16. THE FRENCH ROMANTIC MOVEMENT.

PROFESSOR DEY. Credit, 2 courses.
Prerequisite, French 6. *Five hours a week.*
Winter and Spring Quarters.

Lamartine, Hugo, Vigny, Musset, etc. Later literary movements are also touched upon. Lectures, reading, reports.

17-18. THE FRENCH DRAMA.

PROFESSOR DEY. Credit, 2 courses.
Prerequisite, French 6. *Five hours a week.*
Fall and Winter Quarters.

A study of the development of the drama in France. Lectures, reading, reports.

No student is permitted to take French 1-2 and Spanish 1-2 at the same time.
A certificate is granted to a student who has completed with credit any eight courses exclusive of Course 1-2.

Courses Primarily for Graduates

101-102. THE FRENCH CLASSIC DRAMA.

PROFESSOR LEAVITT. Credit, 2 courses.
Five hours a week.
Fall and Winter Quarters.

An intensive study of Corneille, Racine and Molière. Investigation of sources, extensive collateral reading with oral reports and a thesis. (To be omitted in 1921-1922.)

105-106. THE SIXTEENTH CENTURY.

PROFESSOR TOWLES. Credit, 2 courses.
Five hours a week.
Winter and Spring Quarters.

Origins of the Renaissance movement: Italian and French Humanism. The Reformation. Marot, Rabelais, Calvin, the Pléiade, Montaigne.

109-110. THE DEVELOPMENT OF THE FRENCH NOVEL.
PROFESSOR DEY. Credit, 2 courses.
Five hours a week.

121-122. OLD FRENCH.
PROFESSOR TOWLES. Credit, 2 courses.
Five hours a week.
Fall and Winter Quarters.

Reading of the oldest texts: La Chanson de Roland; Aucassin et Nicolette; Chrétien de Troyes. Lectures on French Phonology and Morphology.

125. PROVENCAL.
PROFESSOR DEY. Credit, 1 course.
Five hours a week.
Spring Quarter.

A study of the ancient language and literature of Provence. The poetry of the Troubadours.

130. RESEARCH.
Research in a special field under the direction of a member of the department.

Spanish

Courses for Undergraduates

1-2. ELEMENTARY COURSE.
PROFESSORS LEAVITT, STAAB and GREEN. Credit, 2 courses.
Five hours a week.
Fall and Winter or Winter and Spring Quarters.

Essentials of Spanish grammar. Special attention given to pronunciation. Reading of selected texts, with much oral drill. This course may be counted for credit towards the degree by those who have fulfilled the entrance requirement in two other foreign languages, and provided it is followed by Spanish 3-4. Course 2 will also be given in the fall of 1921.

3-4. CONTINUATION OF COURSE 1-2.
PROFESSORS STAAB and GREEN. Credit, 2 courses.
Five hours a week.
Freshman and Sophomore elective. *Fall and Winter or Winter and Spring Quarters.*
Prerequisite, Spanish 3-4.

Reading of modern Spanish literature, composition and dictation.

5. MASTERPIECES OF SPANISH LITERATURE.

PROFESSORS LEAVITT, STAAB and GREEN. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.*
Prerequisite, Spanish 3-4. *Winter Quarter.*

Extensive collateral reading. Oral drill in the spoken language. Topics of general interest discussed.

6. SPANISH DRAMA IN THE NINETEENTH CENTURY.

PROFESSOR LEAVITT. Credit, 1 course.
Sophomore, Junior and Senior elective. *Five hours a week.*
Prerequisite, Spanish 5. *Spring Quarter.*

Rapid reading. Oral and written reports.

9. COMMERCIAL SPANISH.

Professor LEAVITT. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Prerequisite, Spanish 5. *Spring Quarter.*

The object of this course is to give the student practical training in modern Spanish. Newspaper and magazine articles dealing with the life and customs of South America will be read. Practice in social and commercial correspondence. This course will be largely conducted in Spanish.

Courses for Graduates and Advanced Undergraduates

11-12. SPANISH DRAMA OF THE SIXTEENTH AND SEVENTEENTH CENTURIES.

PROFESSOR LEAVITT. Credit, 2 courses.
Prerequisite, Spanish 5. *Five hours a week.*
Fall and Winter Quarters.

Earlier dramatists, representative plays of Lope de Vega, Calderón, Ruiz de Alarcón, Tirso de Molina, etc. Lectures and reports.

No student is permitted to take Spanish 1-2 and French 1-2 at the same time.

Courses Primarily for Graduates

121-122. EARLY SPANISH.

Professor Leavitt. Credit, 2 courses.
Five hours a week.
Winter and Spring Quarters.

Ford's *Old Spanish Readings.* The Poem of the Cid. Spanish Literature to the sixteenth century.

131-132. INTRODUCTION TO SPANISH-AMERICAN LITERATURE.

Professor Leavitt. Credit, 2 courses.
Five hours a week.
Fall and Winter Quarters.

A study of representative authors and consideration of present-day writers. Extensive collateral reading. Original research in special fields with written and oral reports.

Italian

Courses for Undergraduates

1-2. ELEMENTARY COURSE.

Professor Huse. Credit, 2 courses.
Junior and Senior elective. *Five hours a week.*
Prerequisite, French 3-4 or Spanish 3-4. *Winter and Spring Quarters.*

Grammar, pronunciation, oral and written exercises. Reading of modern Italian texts.

3-5. ITALIAN LITERATURE.

Professor Huse. Credit, 2 courses.
Junior and Senior elective. *Five hours a week.*
Prerequisite, Italian 1-2. *Fall and Winter Quarters.*

Special emphasis on Italian literature of the Renaissance. Readings from Dante, Boccaccio, Petrarch, Ariosto, Machiavelli, Tasso.

Portuguese

Courses for Undergraduates

1-2. ELEMENTARY COURSE.

Professor Leavitt. Credit, 2 courses.
Junior and Senior elective. *Five hours a week.*
Prerequisite, French 3-4 or Spanish 3-4.

Grammar, pronunciation, oral and written exercises, translation and reading at sight. Given when there is sufficient demand.

DEPARTMENT OF RURAL SOCIAL SCIENCE

EUGENE CUNNINGHAM BRANSON, A.M., Litt.D., *Kenan Professor of Rural Social Science.*

SAMUEL HUNTINGTON HOBBS, JR., A.M., *Assistant Professor of Rural Economics and Sociology.*

Courses for Undergraduates

1-2-3. FORMAL COURSE IN RURAL ECONOMICS.

PROFESSOR HOBBS. Credit, 3 courses.
Junior and Senior elective. *Five hours a week.*
Prerequisite or Corequisite: Economics 1-2. *Fall, Winter and Spring Quarters.*

A background for defining and interpreting the economic problems of country life in North Carolina: Carver's Principles of *Rural Economics.* References: Nourse's *Readings in Agricultural Economics,* Carver's *Selected Readings in Rural Economics.*

5-6-7. CONSTRUCTIVE STUDIES IN RURAL SOCIOLOGY.

PROFESSOR BRANSON. Credit, 3 courses.
Junior and Senior elective. *Five hours a week.*
Prerequisite or Corequisite: General Sociology 2. *Fall, Winter and Spring Quarters.*

Sims *The Rural Community.* References: Galpin's *Rural Life;* Vogt's *Introduction to Rural Sociology;* Fiske's *Challenge of the Country;* Wilson's *Evolution of the Country Community, Sociology of Rural Life,* Proceedings of the American Sociological Society, Vol. IX, 1916; Phelan's *Readings in Rural Sociology.*

9-10-11. LABORATORY COURSE IN RURAL ECONOMICS AND SOCIOLOGY.

PROFESSOR BRANSON. Credit, 3 courses.
Junior and Senior elective. *Five hours a week.*
Corequisite: 1-2-3 and 5-6-7. *Fall, Winter and Spring Quarters.*

Home-county and home-state studies, research work and surveys.

Courses for Graduates and Advanced Undergraduates

13-14-15. RURAL ECONOMICS.

PROFESSOR BRANSON. Credit, 3 courses.
Five hours a week.
Fall, Winter and Spring Quarters.

Research, seminars, and field investigation in (1) land economics —resources, values, ownership and tenancy, laws and policies;

(2) farm organization and management—farm systems, farm finance, distribution of farm products and the farm income, co-operative farm enterprise; (3) country wealth and country institutions, country home comforts and conveniences, etc.; (4) state and county studies, economic, social and civic; county bulletins, etc. Required preliminary preparation: approved courses in general and agricultural economics. Lacking such preparation, collateral courses in these subjects must be taken in residence here.

17-18-19. RURAL SOCIAL PROBLEMS.

PROFESSORS BRANSON and HOBBS. Credit, 3 courses. *Five hours a week. Fall, Winter and Spring Quarters.*

1. Research, seminars, and field investigation of (1) rural social institutions and agencies, (2) transportation and communication facilities in rural areas, (3) country-mindedness and its sequences, (4) town and country interdependencies, (5) social disability in country areas, our public welfare laws and agencies, (6) social aspects of tenancy and illiteracy, (7) state and county studies, economic, social and civic; county bulletins, etc. 2. Rural Social Surveys; research, technic and field work. 3. Statistics; interpretation and use. 4. Rural Social Engineering: (1) county community studies; (2) community organization, economic and social; (3) county government; (4) country leadership, requisites and technic. Required preliminary preparation: approved courses in general and rural sociology, lacking which, collateral courses in these subjects must be taken in residence here.

DEPARTMENT OF SOCIOLOGY

HOWARD WASHINGTON ODUM, Ph.D., *Kenan Professor of Sociology.*

JESSE FREDERICK STEINER, A.M., Ph.D., *Professor of Social Technology.*

HARRY GEORGE NEWMAN, B.Litt., LL.B., *Assistant Professor of Family Case Work.*

EVELYN BUCHAN, B.Ph., *Supervisor of Field Work.*

Courses for Undergraduates.

2. PRINCIPLES OF SOCIOLOGY.

PROFESSOR ODUM. Credit, 1 course.
Junior and Senior elective. *Five hours a week. Fall Quarter.*

A study of the ranges of human experience and relationship through the analysis of social population, social forces, social

processes and social products. Effort will be made to study carefully social principles and their practical applications, and to learn not only social structure and social function, in general, but the possibilities and prospects of guiding the activities of social groups and social forces. Institutional modes of conduct will occupy a large place in the final considerations and conclusions.

3. STATISTICS AND STATISTICAL METHODS.

PROFESSOR ODUM. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Winter Quarter.

A brief survey of the field of theoretical statistics, with a thorough mastery of the elements of numbering, averages, modes, medians, variations, and scientific principles involved. Special emphasis will be placed upon practical methods of utilizing statistics, the recognition of facts, gathering data, compiling, plotting, conclusions, and the special application of statistics to social phenomena.

4. EDUCATIONAL SOCIOLOGY.

PROFESSOR ODUM. Credit, 1 course.
Junior and Senior elective. *Five hours a week.*
Spring Quarter.

Standards of measurement of progress. Survey of sociological principles involved in their applications in education, politics, government, social work. The effective use of sociology in directing and controlling group progress, social institutions, democracy, and in the development of the total social personality of the individual. The co-ordination of institutional modes of activity and the enrichment, through co-operation, of social organization.

Courses for Graduates and Advanced Undergraduates

5. NEGRO PROBLEMS.

PROFESSOR ODUM. Credit, ½ course.
Three hours a week.
Fall Quarter.

A study of the race problems of the South, with consideration of the history, economic and social status, and future of the negro. Standards of measurement for race progress; race relationships; the specific problems of the here and now of southern race relations. Seminar course.

6. PROBLEMS OF IMMIGRATION.

Professor Steiner. Credit ½ course.
Three hours a week.
Winter Quarter.

The essential problems of immigration in this country—history and analysis of immigration—restriction—adaptation—Americanization—Special problems of immigration in relation to industrial and social unrest and development.

7. PROBLEMS OF THE SMALL TOWN AND MILL VILLAGE.

Professor Odum. Credit, ½ course.
Three hours a week.
Spring Quarter.

The romance of the small town—its place in the American commonwealth—relationship to this state—town planning—the mill village—its social and industrial problems—special studies in concrete towns.

8. COMMUNITY ORGANIZATION.

Professor Steiner and ————. Credit, ½ course.
Three hours a week.
Fall or Winter Quarter.

The community as a unit of work—problems of modern community life—principles underlying community organization—experiments in methods of community organization—development and coördination of community activities illustrated by case records—problems of community leadership.

10. MUNICIPAL ADMINISTRATION AND SANITATION.

Professor Saville. Credit, ½ course.
Three hours a week.
Fall Quarter.

This course deals with some selected problems of municipal administration, with particular reference to their effect upon the public welfare. The matters considered cover a wide range of civic problems and the treatment must necessarily be limited to fundamental principles. The course is designed to meet the growing need felt by public officials in North Carolina to be informed as to the best methods to be applied in planning for the physical side of civic and community expansion. The various problems arising in the transition from rural to urban conditions will be particularly considered. The intention is not to turn

out experts in any of the subjects considered. It is desired primarily to educate public officials in the complex matters pertaining to modern city administration; to enable them to plan wisely and intelligently for the growth of their community; to know what kind of information they need and where to find it; and to provide for the intelligent expenditure of public funds for maintenance and expansion.

11. THE FAMILY.

PROFESSOR STEINER. Credit, ½ course.
Three hours a week.
Fall Quarter.

Early forms of the family in primitive society; its historical development during Greek, Roman and Mediæval periods. The modern family and its problems.

12. CRIME AND ITS SOCIAL TREATMENT.

PROFESSOR STEINER. Credit, ½ course.
Three hours a week.
Winter Quarter.

Nature and causes of crime; evolution of modern methods of criminal procedure; administration of penal and reformatory institutions; programs for the social treatment of the criminal; the problems of juvenile delinquency.

13. SOCIAL PATHOLOGY.

PROFESSOR STEINER. Credit, ½ course.
Three hours a week.
Spring Quarter.

A study of the abnormal and pathological aspects of social life: problems of dependency and degeneracy, and methods of care and treatment of dependent and defective classes.

14-15. FAMILY CASE WORK.

PROFESSOR NEWMAN. Credit, 1 course.
Three hours a week.
Fall and Winter Quarters.

Discussion of the relation of the individual to the family and the family to the community. The technique of case work and its scientific approach—methods of investigation, interviewing, social evidence, sources, diagnosis, relief.

Courses Primarily for Graduates.

121. SOCIOLOGY.

Professor Odum. Credit, 1 course.
Five hours a week.
Fall, Winter and Spring Quarters.

A graduate seminar in advanced social theory and research. An advanced course in the study of social problems.

122. SOCIOLOGY.

Professor Steiner. Credit, 1 course.
Five hours a week.
Fall, Winter and Spring Quarters.

A graduate seminar in advanced technique of social problems. Field work and research.

DEPARTMENT OF ZOOLOGY

Henry VanPeters Wilson, Ph.D., *Kenan Professor of Zoology.*

Assistants in Zoology, 1920-1921.

Houston Spencer Everett, A.B. Charles Dale Beers.

(For description of Biological Laboratories, see page 45.)

Courses for Undergraduates

1. ELEMENTS OF ZOOLOGY.

Professor Wilson and Messrs. Everett and Beers. Credit, 1 course.
Six hours a week.
Winter Quarter.
Sophomore, Junior and Senior elective. *Laboratory fee, $5.00.*

An introductory course giving an outline of the structure and physiological behavior of animals. Lectures with laboratory work.

2. ELEMENTS OF ZOOLOGY.

Professor Wilson and Messrs. Everett and Beers. Credit, 1 course.
Six hours a week.
Spring Quarter.
Sophomore, Junior and Senior elective. *Laboratory fee, $5.00.*

A continuation of the preceding, covering classification, and the fundamental concepts of individual development, heredity and evolution. Lectures with laboratory work.

Courses for Graduates and Advanced Undergraduates.

3. COMPARATIVE ANATOMY OF VERTEBRATES.

PROFESSOR WILSON. Credit, 1 course.
Prerequisite, Zoology 1. *Five hours a week.*
Fall Quarter.
Laboratory fee, $5.00.

Dissection of types, especially amphioxus, petromyzon, fish, fowl, rabbit. Laboratory work with occasional lectures.

4. COMPARATIVE EMBRYOLOGY OF VERTEBRATES.

PROFESSOR WILSON. Credit, 1 course.
Prerequisite, Zoology 1. *Five hours a week.*
Winter Quarter.
Laboratory fee, $5.00.

Maturation and fertilization phenomena in some invertebrate types; segmentation and formation of germ layers in frog and teleost fish; germ layers and development of characteristic vertebrate organs in chick; fundamentals of microscopic technique. Laboratory work with occasional lectures.

5. COMPARATIVE HISTOLOGY OF VERTEBRATES.

PROFESSOR WILSON. Credit, 1 course.
Prerequisite, Zoology 4. *Five hours a week.*
Spring Quarter.
Laboratory fee, $5.00.

Microscopic preparation of selected tissues and organs are made from the fresh animal, and studied with the help of texts. Laboratory work with assigned reading.

6-7-8. MORPHOLOGY AND CLASSIFICATION OF THE INVERTEBRATES.

PROFESSOR WILSON. Credit, 1½ courses.
Three hours a week.
Fall, Winter and Spring Quarters.
Laboratory fee, $3.00 a quarter.

Dissection and microscopic study of types of the chief orders, with some consideration of life histories; systematic diagnosis. Laboratory work with occasional lectures.

Courses for Graduate Students

109-110-111. GENERAL EMBRYOLOGY AND REGENERATION.

Professor Wilson. Credit, 3 courses.
Five hours a week.
Fall, Winter and Spring Quarters.
Laboratory fee, $5.00 a quarter.

Embryology and Regeneration in the lower metazoa and simpler vertebrates.

PART FIVE

COMMENCEMENT

LIST OF STUDENTS

INDEX

ONE HUNDRED AND TWENTY-FIFTH COMMENCEMENT
1920

SUNDAY, JUNE 13th

Baccalaureate Sermon
Chancellor Samuel Black McCormick, LL.D.

Sermon Before The Young Men's Christian Association
The Reverend W. D. Moss, D.D.

MONDAY, JUNE 14th

Senior Speakers

John Washburn.
Thomas J. Brawley.
Columbus A. Hoyle.
Folger L. Townsend.

TUESDAY, JUNE 15th

Alumni Exercises

Reunions of the Classes of 1860, 1870, 1880, 1890, 1900, 1905, 1910, 1915, 1919.

The Debate by Representatives From the Dialectic and Philanthropic Literary Societies

Dialectic	*Philanthropic*
Charles Theodore Boyd.	John Hosea Kerr, Jr.
William Haywood Bobbitt.	Bryant Council Brown.

WEDNESDAY, JUNE 16th

The Commencement Address

The Honorable Roland S. Morris.

DEGREES IN COURSE

Bachelors of Arts

Sidney Broaddus Allen
William Banks Anderson
Ola Blanche Andrews
William Henry Andrews, Jr.
Josiah Smith Babb
*Charles Wortley Bain
*Hugh Clifton Black
William Augustus Blount
Thomas Johnson Brawley
Henry Cowles Bristol
Leo Heartt Bryant
William Horace Butt
Benjamin Cone
George Dewey Crawford
Grover Cleveland Dale
Donald Snead Daniel
Worth Bagley Daniels
James Edward Dowd
*‡Calvin Ransome Edney
Houston Spencer Everett
Rachel Freeman
Nathan Green Gooding
Theodore Alexander Graham
Robert Bruce Gwynn
Leo Heartt Harvey
Michael Arendell Hill, Jr.
Columbus Alonzo Hoyle
Lawrence Wooten Jarman
Edgar Bryan Jenkins
Robert DuVal Jones, Jr.
Claude Reuben Joyner
William Shipp Justice
William Robert Kirkman
Thomas Skinner Kittrell
James Horace Lassiter
Samuel Bayard Lee
Sanford Martin Lee
William Figures Lewis
Francis Julius Liipfert, Jr.
Roland Prince McClamroch
John Brown McLaughlin, Jr.
George Weaver Mann
Kate deRosset Meares
Olin Bain Michael
Nathan Mobley
James Samuel Moore
Oliver Earl Moore
*†Robert Franklin Moseley
William James Nichols
Horace Nims
Thomas Lilley Pace
James Jerome Pence
*†James Davis Poag
Will Nelson Poindexter, Jr.
Clifton Addison Poole
Vera Pritchard
*Claude Clinton Ramsay
Moses Rountree
John William Sexton
Mildred Irene Sherrill
Henry Belk Simpson
Bryan Webb Sipe
Joseph Felix Spainhour, Jr.
Rufus Arthur Spaugh
Earl Montgomery Spencer
Corydon Perry Spruill, Jr.
Marvin Lee Stone
Elizabeth Murphy Taylor
Everett Simon Teague
Harvey Stansill Terry
Daniel Dewey Topping
Joseph Barber Towler
†Calvert Rogers Toy
Richard Stanford Travis, Jr.
Luther Wiley Umstead
Louise Manning Venable
Carl Hampton Walker
John Pipkin Washburn
*Frank Lowrance Wells
Edwin Emerson White
Ralph Devereux Williams
Samuel Hood Willis
Ralph Harper Wilson
Thomas Clayton Wolfe
Jake Garrett Woodward

---

* Absent by permission.
‡ As of 1917.
† As of 1919.

Bachelors of Arts in Education

Cordelia Camp
Sylvia L. Arrowood Latshaw
Harry Franklin Latshaw

Bachelors of Science in Chemistry

Edward Broad Cordon
Roy Hobart Souther
Fletcher Humphries Spry
Haywood Maurice Taylor
Woodford White

Bachelors of Science in Civil Engineering

Cary Buxton Taylor
John Bruce Yokley

Bachelors of Science in Electrical Engineering

Edwin Charlton Balentine
Clarence Pinkney Bolick
Chester Winthrop Burton
Charles Mortimer Hazlehurst
Percy Philip Lynch, Jr.
William Edward Merritt
William Webb Neal

Bachelor of Science in Geology

Holt Pebbin Faucette

Bachelors of Science in Medicine

Leslie Edward Chappell
Ernest Walton Clark, Jr.
Francis Mann Clarke
*†David Alexander Cooper
Vernon Lyndon Eley
†Alfred Wilson Hamer
James Meredith Ketchie
William Blount Norment
Samuel Royall Norris
James Lewis Poston
Robert Alexander Ross
Eli Richard Saleeby
John Cotten Tayloe
Earl Runyon Tyler

Bachelor of Arts and Laws

Dennis Bryan Leatherwood

Bachelors of Laws

Graham Arthur Barden
Frederick Oscar Bowman
Edwin Breathed Bridges
Frederick Jacob Cohn
James Millar Coleman
Charles Rufus Daniel
Kathrine McDiarmid Robinson

* Absent by permission.
† As of 1919.

Graduates in Pharmacy

Delma Desmond Hocutt
Laurance Munsey Ingram
Guy Smith Kirby
Vernon Duncan Lea
Perry Jenkins Melvin
John Crayton Mills
*Fred Marion Patterson
Millard Brown Phillips
Harry Wilbur Walker

Pharmaceutical Chemist

Thomas Pugh Dawson

Masters of Arts

Kazuo Ibara
Harry Towles Davis
William Clement Eaton
‡William Wilson Kirk
Saichiro Kita
Joe Burton Linker
William Dougald MacMillan, 3d
Herman Earl Marsh
James Claudius Peel
*Margaret Gray Perry
Samuel Clement Smith
Thomas Edgar Story
Jasper Leonidas Stuckey
Rosser Howard Taylor
Lennie Marie Ward
Hilton Gwaltney West
*Frances Womble

Masters of Science

*Isaac Vilas Giles
David Haughton Jackson
Ernest Neiman

HONORARY DEGREES

Doctors of Laws

Alexander Graham
Francis Donnell Winston

Doctors of Literature

John McLaren McBryde
William Cunningham Smith

---

* Absent by permission.
‡ As of 1917.

MEDALS, PRIZES, AND FELLOWSHIPS

The William Cain Prize in Mathematics—C. Edwards.
The Eben Alexander Prize in Greek—F. D. Bell.
The Early English Text Society Prize—Frances Womble.
The Callaghan Scholarship Prize in Law—Kathrine McD. Robinson.
The Ledoux Fellowship in Chemistry—T. M. Andrews.
The Hunter Lee Harris Medal—W. L. Blythe.
The Ben Smith Preston Cup—N. G. Gooding.
The Julian S. Carr Fellowship—W. R. Berryhill.
The Burdick Prize in Journalism—Philip Hettleman.
The Stanton Byrd McKinnon Memorial Medal in Freshman English—D. R. Hodgin.
The William J. Bryan Prize in Political Science—M. H. Patterson.
The Bradham Prize in Pharmacy—Dorothy E. Foltz.
The Mildred Williams Buchan Scholarship in Philosophy—P. E. Greene.
The Bingham Prize—W. H. Bobbitt.
The Mangum Medal—F. L. Townsend.

Elected to Membership in the *Phi Beta Kappa Society*, 1920—J. L. Cook, President; C. D. Beers, Secretary; C. L. G. Ashby, W. R. Berryhill, W. L. Blythe, W. H. Bobbitt, C. T. Boyd, Mary L. Cobb, R. M. Davis, H. Edmundson, W. A. Gardner, W. P. Hudson, H. A. Patterson, F. C. Shepard, R. S. Shore, H. D. Stevens, J. G. Tucker, Louise M. Venable, T. J. Wilson, III.

Elected to Associated Membership in the *Society of Sigma Xi*, 1920—T. M. Andrews, J. N. Couch, I. V. Giles, B. Markham, S. C. Smith, I. W. Smithey, J. L. Stuckey, H. R. Totten.

CERTIFICATES

Economics—R. B. Gwynn, S. I. Parker.

Zoology—W. W. Kirk.

Honors in Language and Literature—F. J. Liipfert, Jr., C.P.Spruill,Jr.

STUDENTS (1920-1921)

GRADUATES

Adams, Raymond William, Elgin, Ill.
A.B., 1920, Beloit College. English.

Amick, Harold Clyde, Burlington.
A.B., 1920, Elon College. Civil Engineering.

Andrews, Troy Monroe, Chapel Hill.
A.B., 1914, S.M., 1917. Chemistry, Physics.

Andrews, William Henry, Jr., Tarboro.
A.B., 1920. Business Organization.

Atkins, Earnest Willie, Canyon, Tex.
B.A., (in Educ.), 1920, West Texas Normal College. Psychology, Education

Aycock, John Lee, Raleigh.
A.B., 1919. English.

Babb, Josiah Smith, Hertford.
A.B., 1920. Geology, Chemistry.

Bacon, Mabel Louise, Charlotte.
B.S., 1916, Catawba College, etc. Education, History.

Baity, Herman Glenn, Harmony.
A.B., 1917. Civil Engineering, Mathematics.

Bradshaw, Francis Foster, Chapel Hill.
A.B., 1916. Psychology.

Brown, Roy Melton, Boone.
A.B., 1906. Sociology, Rural Sociology, Education.

Butt, William Horace, Raleigh.
A.B., 1920. Geology, Chemistry.

Camp, Charles Wellner, Irvington, N. J.
B.S., 1918, A.M., 1920, Columbia University. English.

Caveness, Hugh Lynn, Coleridge.
A.B., 1919, Trinity College. Chemistry, Electrical Engineering, Geology.

Clegg, Agnes Marie, Guilford College.
A.B., 1918, Guilford College. English.

Clegg, Elsie May, Guilford College.
A.B., 1920, Guilford College. History, Government.

Cobb, Lucy Maria, Chapel Hill.
English, Philosophy, Sociology.

Dale, Grover Cleveland, Seven Springs.
A.B., 1920. Chemistry, Botany, Zoology.

Davis, James Blaine, Chapel Hill.
A.B., 1916, Wake Forest College. English.

Dawson, Paul Reber, West Springfield, Mass.
A.B., 1916, Clark College. Chemistry.

Elliott, Albert Pettigrew, Suffolk, Va.
A.B. and A.M., 1916, College of William and Mary. English.

Everett, Houston Spencer, Rockingham.
A.B., 1920. Zoology, Botany, Physics.

Farra, Kathryn, Nicholasville, Ky.
A.B., 1909, Transylvania College. Economics.

Frazer, Keener Chapman, Evergreen, Ala.
A.B., 1920, Wofford College. History, Economics.

Giles, Isaac Vilas, Marion.
S.B., 1918, S.M., 1920. Chemistry, Physics.

Hamilton, Thomas Hoffman, Des Moines, Ia.
A.B., 1907, Monmouth College. English.

Hankins, Melissa Millner, Winston-Salem.
A.B., 1917, Salem College. Chemistry, Physics.

Haronian, Frank John, Chapel Hill.
B.A., 1908, Mechitharistes College. French.

Hill, Michael Arendell, Jr., Beaufort.
A.B., 1920. Civil Engineering, Mathematics.

Howell, Almonte Charles, Chapel Hill.
A.B., 1917, Denison Univ., M.A., 1920, Columbia Univ. English.

Latshaw, Harry Franklin, Chapel Hill.
A.B., (in Educ.), 1920. Education, Psychology.

Latshaw, Sylvia Louise, Chapel Hill.
A.B., (in Educ.), 1920. Education, Psychology, English.

Lay, Elizabeth Atkinson, Beaufort.
A.B., 1919. English.

Ledford, Robert Newton, Hot Springs.
Education.

Lee, Samuel Bayard, Four Oaks.
A.B., 1920. Geology, Chemistry.

Lindsey, Edwin Samuel, Tryon.
A.B., 1919. English.

Lineberry, Richard Arthur, Siler City.
B.S., 1920, Guilford College. Chemistry.

Linker, Joe Burton, Salisbury.
A.B., 1918, A.M., 1920. Mechanical Engineering, Mathematics.

McClamroch, Roland Prince, Greensboro.
A.B., 1920. English.

MacMillan, William Dougald, 3d, Wilmington.
A.B., 1918, A.M., 1920. English.

Martin, Beulah Scotte, Atlanta, Ga.
Graduate, 1914, Georgia State Normal School. Sociology, Rural Sociology, Economics.

Martin, Leo DeWitte, Suffolk, Va.
A.B., 1919, Elon College. History, Government, Sociology.

Moore, Oliver Earl, Bennettsville, S. C.
A.B., 1920. Chemistry, Electrical Engineering.

Morton, Roy Jay, Jacksonville.
A.B., 1920, Elon College. Mathematics, Civil Engineering.

Newman, Harry George, Chapel Hill.
Litt.B., 1913, Boston Univ., LL.B., 1916, Univ. of Wisconsin. Economics, Psychology.

Poindexter, William Nelson, Jr., Walkertown.
A.B., 1920. Sociology, Philosophy.

Pruitt, Annie Beckwith, Franklinton.
A.B., 1919, N. C. College for Women. Sociology, Rural Sociology, Economics.

Ramsay, Claude Clinton, Salisbury.
A.B., 1920. Botany, Zoology, Chemistry.

Reid, Louisa Pressly, Gastonia.
A.B., 1918. English.

Sanders, Wiley Britton, Sparta, Ga.
A.B., 1919, A.M., 1920, Emory University. Sociology, Economics.

Sibley, James Longstreet, Montgomery, Ala.
B.S., 1902, Univ. of Ga. Sociology, Rural Sociology, Economics.

Silin, Charles Intervale, Boston, Mass.
S.B. (as of 1918), Harvard Univ. French.

Simons, John David, Colerain.
English, History.

Sipe, Bryan Webb, Cherryville.
A.B., 1920. Economics, Business Organization, Rural Economics.

Smith, Charles George, Siler City.
A.B., 1913, Wake Forest College, M.A., 1920, Univ. of Pa. English.

Smith, Samuel Clement, Chapel Hill.
A.B., 1918, Guilford College, A.M., 1920. Chemistry, Physics.

Smithey, Ira Wellborn, Wilkesboro.
S.B., 1918, S.M., 1919. Chemistry, Physics.

Snyder, Verdie Elizabeth, Salisbury.
A.B., 1920, Cornell Univ. Sociology, Rural Sociology, Economics.

Spainhour, Joseph Felix, Jr., Morganton.
A.B., 1920. English.

Spaugh, Rufus Arthur, Winston-Salem.
A.B., 1920. Economics, Business Organization, Philosophy.

Spencer, Rebert Baxter, Chapel Hill.
Education, History.

Spruill, Corydon Perry, Jr., Raleigh.
A.B., 1920. Economics.

Spruill, Mary James, Littleton.
English.

Stone, Alma Irene, Chapel Hill.
A.B., 1915. French.

Stuckey, Jasper Leonidas, Chapel Hill.
A.B., 1918, A.M., 1920. Chemistry.

Taketomi, Yazuo, Hakodate, Japan.
A.B., 1919, Waseda Univ. English, Psychology.

Taylor, Haywood Maurice, Tarboro.
S.B., 1920. Chemistry, Geology.

Terry, John Skally, Rockingham.
A.B., 1918. English, Philosophy.

Thompson, Cyrus, Jr., Chapel Hill.
A.B., 1911. Business Organization.

Totten, Henry Roland, Yadkin College.
A.B., 1913, A.M., 1914. Botany.

Venable, Louise Manning, Chapel Hill.
A.B., 1920. Commercial Law.

Wolfson, Abraham Maurice, Tampa, Fla.
B.S., 1920, Univ. of Fla. Chemistry.

Woodward, Jake Garrett, Erwin, Tenn.
A.B., 1920. Zoology, History, Chemistry.

Senior Class

Arrowood, Fred Monroe, A.B. in Ed., Bessemer City.
Austin, Sheldon Clyde, S.B. III, Richfield.
Bacon, Frank Robbins, S.B. III, Charlotte.
Banzet, Julius Edmond, Jr., A.B., Ridgeway.
Beers, Charles Dale, A.B., Asheville.
Bell, Frank Durham, A.B., Tuxedo.
Berryhill, Walter Reece, A.B., Charlotte.

Blythe, William LeGette, A.B.,	Huntersville.
Bobbitt, William Haywood, A.B.,	Statesville.
Boyce, Henry Spurgeon, A.B.,	Lynch.
Boyd, Charles Theodore, A.B.,	Gastonia.
Broach, Jamie Bunnell, S.B. III,	Hurdle Mills.
Brooks, Frederick Phillips, S.B. I,	Kinston.
Bryan, Charles Junius, S.B. II,	Goldsboro.
Bullock, Augustus Rufus, A.B.,	Creedmoor.
Carmichael, William Donald, Jr., S.B. Com.,	Durham.
Carroll, Duncan McColl, S.B. I,	Bennettsville, S. C.
Cobb, Lucy Maria, A.B.,	Chapel Hill.
Cobb, Mary Louisa, A.B.,	Chapel Hill.
Coker, Richard Gay, A.B.,	Hartsville, S. C.
Cooper, Henry Burwell, A.B.,	Henderson.
Cooper, Lenox Gore, A.B.,	Wilmington.
Cowan, John Columbus, Jr., A.B.,	Rutherfordton.
Daniels, Jonathan Worth, A.B.,	Raleigh.
Davis, Robert Mayo, A.B.,	Tarboro.
Dawson, Thomas Pugh, S.B. I,	Norfolk, Va.
Deitz, Robert Odus, S.B. I,	Statesville.
Dorsette, Robert Clyde, A.B.,	Siler City.
Dupree, Benjamin Owens, A.B.,	Plymouth.
Edmundson, Haywood, A.B.,	Raleigh.
Ervin, Joseph Wilson, A.B.,	Morganton.
Erwin, Jesse Harper, Jr., S.B. Com.,	West Durham.
Evans, Erasmus Hervey, A.B.,	Laurinburg.
Fields, Leonard Earl, A.B.,	Kinston.
Foote, William Feimster, S.B. II,	Statesville.
Fowler, Charles Worth, S.B. V,	Greensboro.
Fulton, Howard, Edward, A.B.,	Winston-Salem.
Grant, Daniel Lindsay, A.B.,	Sneads Ferry.
Gregory, Lee Overman, A.B.,	Salisbury.
Griffin, Arthur Gwynn, A.B.,	Marshville.
Guard, John Worth, S.B. I,	Coinjock.
Hagood, William Ward, Jr., S.B. Com.,	Charlotte.
Hanby, Howard Alexander, S.B. Com.,	Wilmington.
Harden, Boyd, A.B.,	Burlington.
Hargett, John McKenzie, A.B.,	Trenton.
Harrell, William Burrus, S.B. Com.,	Moyock.
Harris, Charles Robert, S.B. I,	Arden.
Hayes, Nathaniel Perkinson, A.B.,	Wise.
Heffner, Hubert Crouzé, A.B.,	Maiden.
Heffner, Ray Lorenzo, A.B.,	Maiden.
Hester, Waverly Mauldin, A.B.,	Tryon.
Hettleman, Phillip, S.B. Com.,	Chapel Hill.

Hinson, Thera Earl, S.B. II,	Monroe.
Hoffner, Benjamin Ivey, A.B.,	Salisbury.
Holt, Edwin Michael, S.B. Com.,	Duke.
Horner, Junius Moore, Jr., A.B.,	Asheville.
Hudson, Willard Peyton, A.B.,	Sparta.
Hughes, Adeline Edmonds, A.B.,	Henderson.
Hunter, Rufus Avera, A.B.,	Raleigh.
Kerr, John Hosea, Jr., A.B.,	Warrenton.
Kincaid, Haywood Gordon, A.B.,	Gastonia.
Ledford, Robert Newton, A.B.,	Hot Springs.
Leonard, Colvin Theodore, A.B.,	Greensboro.
Lineberger, Archibald Caleb, Jr., A.B.,	Belmont.
Lohr, Burgin Edison, A.B.,	Lincolnton.
McKnight, Thomas Mortimer, A.B.,	Mooresville.
MacMillan, Louis deRosset, A.B.,	Wilmington.
Martin, Elbert Hoke, A.B.,	Charlotte.
Massenburg, James Speed, A.B.,	Louisburg.
Miller, James Bennet, A.B.,	China Grove.
Milton, Leon Vincent, S.B. II,	Greensboro.
Morris, John De, S.B. II,	Roxboro.
Naiman, Barnette, S.B. I,	Greensboro.
Nelson, Lewis Mann, S.B. I,	Florence, S. C.
Noble, Marcus Cicero Stephens, Jr., A.B.,	Chapel Hill.
Noe, Kenneth Barnes, S.B. III,	Beaufort.
O'Neal, Harry Edward, A.B.,	Scranton.
Ogburn, Roger Wendell, A.B.,	Kernersville.
Ogburn, Sihon Cicero, Jr., S.B. I,	Winston-Salem.
Owens, Adolphus Bingham, S.B. I,	Charlotte.
Patrick, Bailey, A.B.,	Hickory.
Patterson, Howard Alexander, A.B.,	Chapel Hill.
Penny, James Theophilus, A.B.,	Charlotte.
Penny, Ruth, A.B. in Ed.,	Wendell.
Phillips, Charles Wiley, A.B.,	Trinity.
Pickard, Nell A. Patterson, A.B.,	Chapel Hill.
Pollock, Philip Basil, A.B.,	Trenton.
Pritchard, William Grady, S.B. Com.,	Chapel Hill.
Purrington, Alfred Luther, Jr., A.B.,	Scotland Neck.
Reams, Samuel Hunter, A.B.,	Durham.
Redfearn, William Alexander, S.B. V,	Wingate.
Renegar, Harvey Caldwell, S.B. Com.,	Harmony.
Ridge, Charles Baxter, S.B. I,	High Point.
Robbins, George Branson, A.B.,	Jamestown.
Robbins, Jesse Manly, A.B.,	Ashboro.
Roberson, Nellie, A.B.,	Chapel Hill.
Roberts, Bryan Nazer, A.B.,	Hillsboro.

Royall, William Allen, A.B.,	Goldsboro.
Ruffin, William Haywood, Jr., S.B. Com.,	Louisburg.
Shaw, John Duncan, A.B.,	Charlotte.
Shepard, Frederick Carlyle, A.B.,	Wilmington.
Shine, Lou Sullivan, A.B.,	Chapel Hill.
Shine, Wesley Hill, A.B.,	Chapel Hill.
Shore, Rossie Steelman, A.B.,	Yadkinville.
Smith, Philip Carver, S.B. II,	Capron, Va.
Smith, Robert Owen, A.B.,	Liberty.
Spencer, Rebert Baxter, A.B.,	Chapel Hill.
Stevenson, Samuel Whitfield, A.B.,	Charlotte.
Stimpson, Robert Tula, A.B.,	Siloam.
Stout, Wilbur White, A.B.,	Burlington.
Tapp, James Lemon, Jr., A.B.,	Columbia, S. C.
Taylor, Charles Irwin, A.B.,	Pikeville.
Taylor, Nelson Whitford, S.B. I,	Beaufort.
Taylor, Tyre Crumpler, A.B.,	Sparta.
Thies, Karl Ernest, S.B. Com.,	Charlotte.
Thomas, Cyrus Berkeley, A.B.,	Jonesboro.
Thompson, Franklin, S.B. Com.,	Jacksonville.
Tilson, James Frank, Jr., A.B.,	Biltmore.
Tilson, Winfred Erwin, A.B.,	Biltmore.
Townsend, Folger Lafayette, A.B.,	Chapel Hill.
Van Noppen, Donnell, S.B. Com.,	Greensboro.
Welch, Oscar Blaine, S.B. V,	Charlotte.
Whiting, Brainard Sydnor, A.B.,	Raleigh.
Wilson, Thomas, S.B. Com.,	Rural Hall.
Wilson, Thomas James, III, A.B.,	Chapel Hill.
Wright, Allan Brantley, S.B. II,	Winston-Salem.

Junior Class

Abernethy, Oscar Marvin, S.B. Com.,	Salisbury.
Alley, Felix Eugene, Jr., A.B.,	Waynesville.
Allston, William Francis, S.B. II,	Flat Rock.
Anderson, William Puryear, A.B.,	Wilson.
Apple, Jackson Lafayette, A.B.,	Greensboro.
Atkinson, Wade Hampton, Jr., A.B.,	Washington, D. C.
Austin, James Herman, S.B. IV,	Charlotte.
Barden, John Glenn, A.B.,	Goldsboro.
Bardin, Benjamin Hume, AB.,	Wilson.
Bardin, Robert Malcolm, A.B.,	Wilson.
Barefoot, William Jefferson, A.B.-LL.B.,	Benson.
Barr, Edward Wall, A.B.,	Winchester, Va.
Batts, Katherine Galloway, A.B.,	Tarboro.

Benbow, Edgar Vernon, S.B. IV,	East Bend.
Bender, John Alpheus, S.B. I,	Polloksville.
Blair, Clarence Dorian, S.B. Com.,	Greensboro.
Bondurant, Stuart Osborne, S.B. Com.,	Leaksville.
Bowles, Garvin, S.B. Com.,	Winchester, Va.
Boyd, Robert Edwin, S.B. III,	Gastonia.
Brand, James Neveland, Jr., A.B.,	Wilmington.
Braswell, James Craig, Jr., A.B.,	Rocky Mount.
Brewer, Joseph Beaman, A.B.,	Rocky Mount.
Brooks, Clyde Kenneth, S.B. I,	Greensboro.
Bullock, Henry Harrison, S.B. V,	Fuquay Springs.
Byrd, Daniel, A.B.-LL.B.,	Calypso.
Carson, Robert E. Lee, S.B. V,	Bethel.
Carter, Emerson Leroy, A.B.,	Hickory.
Casper, Roy Madison, S.B. II,	Salisbury.
Chappell, Harry Vaughn, A.B.,	Belvidere.
Clawson, James Pool, S.B. III,	Beaufort.
Cochran, Frederick Cline, S.B. I,	Charlotte.
Coffey, Carl Sylvester, S.B. Com.,	North Wilkesboro.
Coker, John Wiley, A.B.,	Rock Hill, S. C.
Cooper, Nina Horner, A.B.,	Oxford.
Cornelius, William Eugene, S.B. Com.,	Mooresville.
Corpening, Harold Cochran, A.B.,	Lenoir.
Courtney, Andrew Marcus, A.B.,	Fayetteville.
Craig, Raymond Lee, S.B. Com.,	Greenwood, Miss.
Crawford, Robert Baker, Jr., S.B. Com.,	Winston-Salem.
Crayton, Joseph Eugene, Jr., S.B. Com.,	Charlotte.
Davis, Robert Alexander, A.B.,	Bullock.
Denham, Adeline, A.B.,	Chapel Hill.
Denny, George Vernon, Jr., S.B. Com.,	Chapel Hill.
Doggett, Howard Hugh, S.B. Com.,	Forest City.
Dorsett, John Dewey, S.B. Com.,	Siler City.
DuBose, David St. Pierre, S.B. II,	Badin.
Duncan, David Dudley, A.B.,	Beaufort.
Edwards, Clayton, S.B. III,	Sparta.
Edwards, McIver Williamson, A.B.,	Darlington, S. C.
Eley, Alvin James, A.B.-LL.B.,	Woodland.
Ellington, John Oglethorpe, Jr., A.B.,	Clayton.
Falls, William Frank, A.B.,	Salisbury.
Fearrington, James C. Pass, A.B.,	Winston-Salem.
Finger, Gordon Turner, S.B. II,	Charlotte.
Fischel, Louis William, S.B. III,	Chester, S. C.
Gattis, Alice Lee, A.B.,	Chapel Hill.
Glenn, William Darby, A.B.,	York, S. C.
Gorham, Mack Cutchin, A.B.,	Rocky Mount.

Gray, Paul Milton, S.B. II,	Charlotte.
Greene, Paul Elliott, A.B.,	Lillington.
Hackler, Robert Harden, Jr., A.B.,	Sparta.
Hamer, Douglas, Jr., A.B.,	McColl, S. C.
Hannah, William Tucker, A.B.,	Waynesville.
Hardin, John Haywood, Jr., S.B. Com.,	Wilmington.
Harris, Henry Clayton, A.B.,	Pike Road.
Hartsell, Luther Thompson, Jr., A.B.-LL.B.,	Concord.
Hedrick, Clyde Reitsell, S.B. IV,	Lenoir.
Hendren, Joseph Flanner, Jr., A.B.,	Elkin.
Hennessee, Valentine Broadway, A.B.,	Glen Alpine.
Hester, William Shepherd, S.B. IV,	Reidsville.
Hill, George Watts, S.B. Com.,	Durham.
Hooker, Edgar Frank, A.B.,	Kinston.
Horner, William Edwin, S.B. Com.,	Durham.
Howard, Corbett Etheridge, S.B. IV,	Pink Hill.
Hunter, Frank Patterson, S.B. IV,	Warrenton.
Jacobi, David Benthner, S.B. Com.,	Wilmington.
James, Andrew Ellerson, S.B. Com.,	Chapel Hill.
Jennings, Earl Dewitt, S.B. I,	Charlotte.
Johnston, Rufus Manfred, S.B. Com.,	Gastonia.
Kendrick, Haywood Benjamin, A.B.,	Cherryville.
Kistler, Charles Edmund, S.B. Com.,	Morganton.
Lake, Marshall Edgar, S.B. II,	Charlotte.
Lancaster, Charles Gradis, S.B. II,	Lexington.
Lane, Sidney Johnston, S.B. Com.,	Henderson.
Lee, Charles Gaston, Jr., A.B.,	Asheville.
LeGrand, Rufus Little, S.B. Com.,	Wilmington.
Lemmond, Walker Avery, S.B. Com.,	Matthews.
Long, Ira Gillespie, A.B.,	Derita.
Love, James Wilbert, S.B. IV,	Raleigh.
Lowe, Frank Robbins, A.B.,	Winston-Salem.
McClurd, Samuel Ralph, A.B.,	Cherryville.
McEwen, Joseph Levy, S.B. I,	Charlotte.
McLean, Joseph Altira, A.B.,	Gibsonville.
Marshburn, Robert Franklin, A.B.,	Wallace.
Martin, Floyd Alexander, S.B. Com.,	East Bend.
Martin, Hunter Evander, A.B.,	Fayetteville.
Martin, Oscar Eugene, S.B. III,	East Bend.
Matthews, William Edwin, A.B.,	Chapel Hill.
Mecum, Ernest James, S.B. II,	Walkertown.
Merritt, Abram Haywood, S.B. Com.,	Mount Airy.
Mewborne, Edward Bruce, A.B.-LL.B.,	Kinston.
Moehlmann, Ernst Otto, S.B. I,	Conover.
Moffit, Stuart Rhodes, S.B. Com.,	Ashboro.

Mourane, Joseph Harley, S.B. I,	Durham.
Murchison, William Cannon, S.B. Com.,	Greensboro.
Murdock, Thomas Glenn, A.B.,	Salisbury.
Nash, Marion Wesley, S.B. Com.,	Winston-Salem.
Neville, Hubert, S.B. Com.,	Chapel Hill.
Norfleet, Ashley Curtis, S.B. IV,	Tarboro.
Norwood, John, S.B. Com.,	Goldsboro.
Oden, John William, Jr., S.B. Com.,	Washington.
Oestreicher, Irvin Wallace, A.B.,	Salisbury.
Parcell, Harold Dawes, A.B.,	Tampa, Fla.
Parham, Edwin Fuller, S.B. Com.,	Henderson.
Parker, Charles Jackson, Jr., A.B.,	Raleigh.
Parker, Talbot Fort, S.B. Com.,	Goldsboro.
Peacock, Frank Lee, A.B.,	Fremont.
Person, Joseph Arrington, A.B.,	Charlotte.
Phipps, Luther James, S.B. III,	Chapel Hill.
Pickens, Wyatt Andrew, A.B.,	High Point.
Pickett, Howell Grady, S.B. I,	Madison.
Porter, Garland Burns, A.B.,	Kernersville.
Powell, Charles Percy, A.B.-LL.B.,	Winston-Salem.
Pressly, Joseph Lowry, S.B. II,	Charlotte.
Priest, Perry Davis, A.B.,	Ridge Crest.
Prince, William Marshall, A.B.,	Laurinburg.
Proctor, Robert Wright, A.B.,	Lumberton.
Pruden, Lina Tucker, A.B.,	Edenton.
Quillin, Edward Lee, S.B. Com.,	Spencer.
Rand, Emmett Gladstone, A.B.,	Garner.
Rankin, Henry Ashby, A.B.,	Fayetteville.
Ranson, Paul Jones, A.B.,	Huntersville.
Raper, Julius Rowan, Jr., A.B.,	Linwood.
Rogers, Exum Allen, A.B.,	Durham.
Scholl, James Lester, A.B.,	Holly Springs.
Shore, George Dewey, A.B.,	Yadkinville.
Smith, Charles Henry, A.B.,	Reidsville.
Smith, Thomas Clarke, S.B. Com.,	Charlotte.
Smoot, William Brittingham, S.B. I,	Salisbury.
Sparger, Collier Bryson, S.B. Com.,	Mount Airy.
Steed, Thomas Warwick, S.B. Com.,	Richlands.
Stephenson, Charles Henry, Jr., A.B.,	Raleigh.
Stephenson, Erwin Joseph, S.B. III,	Angier.
Stevens, Elliott Walker, A.B.,	Warsaw.
Summey, Leo Deaton, A.B.,	Dallas.
Sumner, Clarence Reese, A.B.,	West Asheville.
Susman, Benjamin Louis, Jr., S.B. Com.,	Washington.
Sweetman, Edward Martin, Jr., S.B. Com.,	Knoxville, Tenn.

Taylor, Joseph White, S.B. III,	Oxford.
Thompson, Earle Hinson, S.B. Com.,	Warsaw.
Thompson, Ernest Haynes, A.B.,	Goldsboro.
Tillman, Reginald Archibald, S.B. II,	Kinston.
Toms, William Francis, S.B. Com.,	Arden.
Transou, William Monford, S.B. Com.,	Greensboro.
VanLandingham, Ralph, Jr., A.B.,	Charlotte.
Waddill, James Breeden, S.B. II,	Wilmington.
Warren, Jack, S.B. Com.,	Washington.
Warren, Thomas Lafayette, A.B.,	Lenoir.
Watson, George Curtis, S.B. Com.,	Enfield.
Wearn, James Sims, S.B. III,	Charlotte.
Wearn, Robert Morrison, S.B. II,	Charlotte.
Wells, Dare Abernethy, S.B. II,	Asheville.
Whedbee, Silas Martin, A.B.,	Hertford.
White, Robert Benjamin, S.B. Com.,	Concord.
Wiles, Walter Erasmus, A.B.,	Furches.
Wilkins, Adger Bright, A.B.,	Linden.
Williams, Claude James, A.B.,	Concord.
Wilson, Lawrence Girard, S.B. III,	Dunn.
Wolf, Walter Efroymson, S.B. Com.,	Indianapolis, Ind.
Woodall Junius Cheston, S.B. Com.,	Charlotte.
Wooten, Sterling Dillon, S.B. Com.,	Goldsboro.
Wright, Thomas Ewell, A.B.,	Newton.
Yellott, Mary Traill, A.B.,	Bel Air, Md.

Sophomore Class

Alexander, Robert Glenn, S.B. Com.,	Statesville.
Allen, Carlos Matthew, S.B. Com.,	Tar Heel.
Allen, Joseph Thomas, A.B.,	Gibsonville.
Allen, Oliver Harrison, A.B.,	Goldsboro.
Anderson, Richard Fenner, S.B. Com.,	Greensboro.
Angel, Clarence Cooper, S.B. II,	Bryson City.
Angel, Thomas Weldon, Jr., S.B. II,	Franklin.
Ashford, Charles Hall, A.B.,	New Bern.
Aycock, Frank Bayard, A.B.-LL.B.,	Fremont.
Aydlett, Wyatt Rudolph, S.B. Com.,	Harbinger.
Barnes, John Thomas, A.B.	Wilson.
Barnes, John Thomas, Jr., A.B.,	Wilson.
Beale, Jesse Jordan, A.B.-LL.B.,	Potecasi.
Bell, Robert Purdy, A.B.,	Concord.
Bellamy, Clayton Giles, A.B.,	Wilmington.
Best, John Harper, A.B.,	Greensboro.
Blount, James Davis, A.B.,	Wilson.

Boddie, William Croom, S.B. II,	Nashville.
Bonner, John Havens, A.B.,	Raleigh.
Bradford, John Hugh, A.B.,	Huntersville.
Brown, Eugene Wilson, A.B.,	Rich Square.
Brown, John McKinley, A.B.-LL.B.,	Wilkesboro.
Brown, James Richard, A.B.,	Charlotte.
Brown, Roy Eugene, A.B.,	Statesville.
Brown, William Lee, S.B. I,	Greensboro.
Brunson, Harry Leroy, A.B.,	Tallassee, Ala.
Bryan, Swannie Duke, A.B.,	Apex.
Bryson, Herman Jennings, A.B.,	West Asheville.
Burleson, Milton English, S.B. Com.,	Erwin, Tenn.
Butler, Daniel Clifton, A.B.-LL.B.,	Rowland.
Capel, Arron Leon, S.B. Com.,	Troy.
Carmichael, Richard Cartwright, A.B.,	Durham.
Carroll, Curtis Calvin, S.B. I,	Mizpah.
Cathey, Samuel Murston, A.B.-LL.B.,	Skyland.
Cathey, Wilton, A.B.,	Charlotte.
Chapman, John Woodley, S.B. I,	Charlotte.
Cheesborough, John Cheesborough, A.B.,	Asheville.
Clark, William Grimes, Jr., A.B.,	Tarboro.
Collins, James Chase, S.B. I,	Catharine Lake.
Combs, Joseph John, A.B.,	Columbia.
Cooper, Junius Horner, A.B.,	Oxford.
Cooper, Marshall Young, S.B. Com.,	Henderson.
Couch, William Terry, S.B. II,	Chapel Hill.
Crowson, Ogden Finley, S.B. Com.,	Burlington.
Cuningham, Henry Carrington, A.B.,	Greensboro.
Cutlar, Lillie Fielding Poisson, S.B. I,	Winston-Salem.
Dabbs, Henry Lawrence, A.B.,	Lilesville.
Dalton, Pleasant Hunter, S.B. II,	Concord.
Daniels, Stephen Fowler, S.B. Com.,	New Bern.
Davidson, Clayton Williams, S.B. II,	Mooresville.
Davis, Roy Piland, A.B.,	Kinston.
Davis, Samuel Lee, Jr., S.B. Com.,	High Point.
Dellinger, Everett Edward, S.B. II,	Cherryville.
deRosset, Marsden Bellamy, A.B.,	Wilmington.
Dickson, George Graham, A.B.,	Raeford.
Donnelly, Grant Lester, S.B. IV,	Trade, Tenn.
Doughton, J. Horton, S.B. Com.,	Laurel Springs.
Downing, Augustus Owens, A.B.,	Norfolk, Va.
Dry, Charles Harold, S.B. Com.,	Concord.
Dula, Frederick Mast, A.B.,	Lenoir.
Duval, Louis Daniel, S.B. II,	Charlotte.
Eagles, John Bruce, A.B.,	Walstonburg.

Eaton, George Worland, S.B. Com.,	Hickory.
Echols, William Roger, A.B.,	Raphine, Va.
Edwards, Preston Hampton, A.B.,	Darlington, S. C.
Eller, John DeWalden, A.B.,	Winston-Salem.
Ellis, Henri Bruce, A.B.,	Winston-Salem.
Engstrum, Edgar Francis, S.B. III,	New Bern.
Engstrum, Thomas Gerold, S.B. III,	New Bern.
Epstein, Henry George, A.B.-LL.B.,	Goldsboro.
Essie, Abdo Frank, A.B.,	Chapel Hill.
Everett, James LeGrand, Jr., S.B. Com.,	Rockingham.
Fanning, Frederick Deveau, Jr., S.B. III,	Durham.
Felton, Robert Lee, A.B.,	Fayetteville.
Fleming, Charles Clyde, S.B. Com.,	Fuquay Springs.
Fogleman, Howard Simpson, S.B. Com.,	Burlington.
Francis, William Roy, A.B.,	Waynesville.
Froneberger, Pinkney Carroll, A.B.,	Bessemer City.
Gaither, William Hayes, A.B.,	Hertford.
Gattis, William Floyd, S.B. Com.,	Louisburg.
Gay, Ballard Spruill, A.B.,	Jackson.
Gaylord, John Freeman, S.B. Com.,	Phoenix.
Gentry, James Walter, S.B. II,	Jefferson.
Goodson, Carl Sumner, A.B.,	Hartsville, S. C.
Graham, Thomas Pegram, S.B. Com.,	Charlotte.
Gray, Robert Lilly, Jr., A.B.,	Newport News, Va.
Green, Howard Franklin, S.B. Com.,	Wilmington.
Greenlaw, Dorothy Durland, A.B.,	Chapel Hill.
Greenwood, James Clell, A.B.,	Biltmore.
Griffith, Robert Henry, S.B. Com.,	Charlotte.
Grissett, Felix Alexander, A.B.,	Collettsville.
Groce, Thomas Arthur, Jr., S.B. Com.,	Candler.
Grose, Willie Clay, A.B.,	Loray.
Gullick, Jonathan Greene, A.B.,	Belmont.
Gunter, Truss Bostick, S.B. III,	Sanford.
Hampton, George Coggin, A.B.,	Chapel Hill.
Harding, Thomas Leonard, A.B.,	Yadkinville.
Harding, William Knowlton, S.B. II,	Charlotte.
Harmon, John Obie, A.B.,	Pittsboro.
Harper, Marvin Dixon, A.B.,	La Grange.
Harris, William Lysander, A.B.,	Henderson.
Harris, William Vaughan, A.B.,	Salisbury.
Hartshorn, Matthew LeFevre, S.B. III,	Asheville.
Havner, Alfred Sidney, S.B. Com.,	Rutherford College.
Hendrix, Olin Carlton, A.B.,	Advance.
Highsmith, Jacob Frank, Jr., A.B.,	Fayetteville.
Hill, Gerald Danforth, S.B. Com.,	Beaufort.

Hobbie, Sherwood Eugene, S.B. Com.,	Clayton.
Hodge, Layton Leon, S.B. Com.,	Glen Raven.
Holden, William Lorence, A.B.,	Wilmington.
Holderness, Howard, A.B.,	Tarboro.
Holloman, William Moses, A.B.,	Ahoskie.
Holt, Percy Kirkpatrick, S.B. Com.,	Burlington.
Holt, William Preston, S.B. IV,	Duke.
Honeycutt, Gilbert Mansfield, S.B. Com.,	Chapel Hill.
Hook, Walter Williams, S.B. III,	Charlotte.
Hosea, William, A.B.,	Goldsboro.
Howard, Thomas Simmons, S.B. Com.,	Pink Hill.
Humphrey, Barney Edison, S.B. II,	Wilmington.
Hunt, Edwin Clyde, A.B.,	Lexington.
Hunt, George Penn, S.B. Com.,	Oxford.
Huss, Webb Hunter, A.B.,	Cherryville.
Jenkins, Samuel Gatlin, A.B.,	Tarboro.
Jernigan, Ernest Casper, A.B.,	Chapel Hill.
Johnson, Elliott Wesley, S.B. IV,	Kipling.
Johnson, Joseph Lewis, S.B. IV,	Apex.
Justice, Ralph Healan, S.B. Com.,	Greensboro.
Kerr, James Yancey, A.B.,	Warrenton.
Kesler, Bernie Barton C., A.B.,	Salisbury.
Key, Davis Everett, S.B. II,	Elkin.
Kimbrough, Joseph William, S.B. IV,	Raleigh.
King, Arnold Kimsey, A.B.,	Morrill, Neb.
Knight, Ben Halsey, S.B. IV,	Roper.
Knox, Edward Montgomery, S.B. III,	Winton.
Koontz, Rufus Guyn, S.B. II,	Mocksville.
Lankford, Greene Wright, A.B.,	Harmony.
Leak, James Pickett, S.B. Com.,	Rockingham.
Lee, Raleigh Bradford, A.B.-LL.B.,	Aurora.
Leftwich, Mason Ford, S.B. II,	Biltmore.
Lehman, Ernest Eugene, S.B. II,	Rosemary.
Leonard, Grady Hill, S.B. I,	Lexington.
Lillycrop, William Arthur, A.B.,	Charlotte.
Linker, William Murray, S.B. II,	Salisbury.
Linney, Romulus Zachary, Jr., A.B.,	Charlotte.
Little, James Thomas, A.B.,	Greenville.
Little, Thomas A., A.B.,	Marshville.
London, William Lord, S.B. Com.,	Pittsboro.
Long, Zachary Fillmore, S.B. IV,	Rockingham.
McAuley, Olin Caldwell, S.B. Com.,	Huntersville.
McClamroch, James Robbin, S. B. Com.,	Greensboro.
McCorkle, Edgar Harold, A.B.-LL.B.,	Charlotte.
McCoy, George William S.B. Com.,	Asheville.

McCraw, James Thomas Wiggins, A.B., Wilson.
McDonald, Angus Morris, Jr., A.B., Charlotte.
McDowell, Archibald, Jr., A.B., Scotland Neck.
McGee, Alan Marshall, S.B. Com., Goldsboro.
McLennan, Daniel Commie, S.B. Com., Chapel Hill.
McMullan, William Oscar, A.B., Elizabeth City.
McMurry, Ernest Logan, A.B., Columbus.
McNair, Walter Scott, S.B. Com., Maxton.
McNeill, George Vernon, S.B. Com., Lumberton.
McPherson, Harlen Loften, S.B. Com., Burlington.
Mahler, Carl Kampen, S.B. Com., Wilmington.
Martin, Edward Lee, S.B. I, Charlotte.
Matthews, Charles Irving, A.B., Clinton.
Matthews, Raymond Eley, S.B. Com., Wilson.
Matthews, Stanley Edison, A.B. in Ed., Turkey.
Matthews, Stanley Thomas, S.B. Com., Clinton.
Mauney, Carl Glenn, S.B. II, Maiden.
Maxwell, Samuel Worth, A.B., Charlotte.
May, Reginald Cameron, S.B. III, Lenoir.
Mendenhall, John Henry, A.B., Greensboro.
Menzies, Abel Alexander Shuford, A.B., Hickory.
Menzies, Sterling Ferguson, A.B., Hickory.
Merritt, Carroll Zola, A.B., New Bern.
Meyer, George Michael, Jr., S.B. II, Charlotte.
Miller, Alexander Augustus, S.B. Com., Goldsboro.
Mitchum, William Clayton, A.B., Gastonia.
Moore, Clifton Leonard, A.B.-LL.B., Burgaw.
Moore, William Curtis, S.B. II, Statesville.
Morris, Roy Wilson, S.B. Com., Gastonia.
Moser, Artus Monroe, A.B., Swannanoa.
Newbern, John Small, A.B., Olds.
Nixon, Julian Granbery, A.B., Hertford.
Orr, Albert Summey, S.B. Com., Charlotte.
Parham, Samuel Jones, A.B., Louisburg.
Parker, William Vann, A.B., Monroe.
Parrott, James Marion, S.B. IV, Kinston.
Pate, James Micah, S.B. Com., Goldsboro.
Pemberton, Heath Lee, S.B. Com., Concord.
Pendergraft, Pearl, A.B., Chapel Hill.
Penton, Howard Allen, S.B. Com., Wilmington.
Perry, Charles Herman, A.B., Balsam.
Pharr, Fred, S.B. Com., Charlotte.
Phillips, Lawrence Vermeule, S.B. I, Columbia, S. C.
Pickle, Roy Lee, A.B., Advance.
Poindexter, Crawford Charles, A.B.-LL.B., Franklin.

Powell, William Edward, Jr., S.B. Com.,	Wilmington.
Price, Heath, S.B. II,	Monroe.
Price, Ralph Clay, A.B.,	Greensboro.
Proctor, William Clyde, A.B.	Durham.
Purrington, Philip Parker, A.B.,	Scotland Neck.
Ragsdale, James Edward, S.B. Com.,	Florence, S. C.
Rand, Cecil Holmes, S.B. IV,	Garner.
Ray, James Wilford, A.B.,	Waynesville.
Reagan, Frank Weaver, S.B. Com.,	Weaverville.
Reavis, Peter Augustus, Jr., S.B. Com.,	Louisburg.
Rhue, Jesse Robert, A.B.,	Stella.
Rike, Robert Clayton, S.B. II,	Randleman.
Ritchie, William Alexander, S.B. Com.,	Concord.
Ross, Harold Lacey, S.B. II,	Greensboro.
Sanders, William Marsh, Jr., S.B. Com.,	Smithfield.
Shepard, Thomas Harrison, Jr., S.B. II,	Edenton.
Shirley, Ernest Raeford, S.B. Com.,	Snow Hill.
Smiley, Thomas Bryan, Jr., S.B. II,	Bryson City.
Smith, Albert Lewis, S.B. I,	Concord.
Smith, Cecil Clive, A.B.,	Dunn.
Smith, Charles Gilman, S.B. Com.,	Tarboro.
Smith, Calvin Upshur, S.B. II,	Capron, Va.
Smith, Clater Webb, S.B. Com.,	Wilmington.
Smith, George Herbert, Jr., A.B.,	Wilmington.
Smith, Nathaniel McNair, A.B.,	Raeford.
Smith, William Leonidas, S.B. IV,	Greenville.
Spain, Jack Holland, A.B.-LL.B.,	Greenville.
Spaugh, Ralph Edward, S.B. Com.,	Winston-Salem.
Speck, Thomas Wells, S.B. III,	York, S. C.
Spruill, Jack White, A.B.,	Sanatorium.
Stephens, George, S.B. V,	Birmingham, Ala.
Stoudemire, Sterling Aubrey, A.B.,	Spencer.
Stout, George Richard, S.B. I,	Julian.
Stribling, John William, A.B.,	Atlanta, Ga.
Stroud, Charles Edward, S.B. Com.,	Greensboro.
Stroupe, Christopher Rush, S.B. II,	Altamont.
Stroupe, Francis Lee, A.B.,	Altamont.
Swink, Hearne, S.B. Com.,	China Grove.
Sylvester, Richard Durward, A.B.,	Richlands.
Taylor, Walter John, A.B. in Ed.,	Rutherfordton.
Thomas, Thomas Kent, S.B. I,	Lenoir.
Thompson, Edward Arthur, S.B. II,	Greensboro.
Thompson, Russell Aubrey, S.B. II,	Wilson.
Thompson, Robert Love, Jr., A.B.,	New York, N. Y.
Thomson, Lucille, S.B. II,	Wilmington.

Trotter, John Paul, A.B.,	Charlotte.
Turner, Thomas, Jr., A.B.,	High Point.
Uzzell, Lula Valeria, A.B.,	Chapel Hill.
Uzzell, Pauline, A.B.,	Chapel Hill.
Venters, Leon Stephens, A.B.,	Richlands.
Verner, Mary Elizabeth, A.B.,	Brevard.
Vickers, Winston Gordon, S.B. III,	Durham.
Voorhees, Walter Clark, A.B.,	Gibsonville.
Wade, Julius Jennings, A.B.,	Dunn.
Waldrop, Hugh Dinsmore, S.B. Com.,	Hendersonville.
Ward, Herschel Thomas, S.B. Com.,	Hickory.
Waugh, Henry Edwin, S.B. II,	North Wilkesboro.
Weeks, Robert Silas, S.B. Com.,	Whitakers.
Weitzel, Frederick Jacques, S.B. Com.,	Tuscumbia, Ala.
West, Leslie Tunnell, S.B. Com.,	Fairmont.
White, William Edgar, Jr., S.B. Com.,	Louisburg.
Whitener, Daniel Jay, A.B.-LL.B.,	Hickory.
Wicker, Matthew Edward, S.B. III,	Sanford.
Willard, Edward Payson, Jr., A.B.,	Wilmington.
Williams, Colon Edgar, A.B.,	Benson.
Williams, Lloyd Preston, S.B. Com.,	Pee Dee.
Williams, Woodward White, S.B. Com.,	Durham.
Williamson, Benjamin Napier, S.B. Com.,	Louisburg.
Williamson, James Saunders, A.B.,	Burlington.
Wilson, Odie Leon, Jr., S.B. Com.,	Kinston.
Wood, James Edward, S.B. III,	Edenton.
Worsham, Buford Blackburn, A.B.-LL.B.,	Reithbend, Va.
Yates, Jesse Graves, S.B. Com.,	Asheville.
Yates, William James, S.B. Com.,	Charlotte.
Young, Victor Vernon, A.B.,	Durham.
Youngblood, Samuel Herbert, S.B. Com.,	Charlotte.

Freshman Class

Abramowitz, Jacob Bernard, S.B. Com.,	Wilmington.
Adams, James Ervin, A.B.,	Hamlet.
Adickes, Withers, S.B. II,	York, S. C.
Alexander, Edward Johnston, S.B. V,	Asheville.
Alexander, James Ramsey, Jr., S.B. II,	Charlotte.
Alexander, Lyndall Vaughn, S.B. Com.,	Greenville, S. C.
Allen, Eugene Gerald, S.B. Com.,	Louisburg.
Allen, Samuel Nolan, A.B.,	Seagrove.
Allred, Clarence Malcolm, A.B.,	Climax.
Allsbrook, Julian Russell, A.B.,	Roanoke Rapids.
Alsop, William Strother, S.B. II,	Enfield.

Ambler, John Vernon, A.B.,	Asheville.
Andrews, Claud Miller, A.B.,	Schoolfield, Va.
Andrews, Elva Dare, A.B.,	Chapel Hill.
Apple, Willis Jordan, S.B. II,	Burlington.
Atkins, Craig Starbuck, A.B.,	Greensboro.
Ausband, George Alonzo, S.B., III,	High Point.
Aycock, Charles Pinkney, Jr., A.B.,	Pantego.
Barden, Joel McArthur, A.B.,	Burgaw.
Barefoot, Nathan Carl, A.B.-LL.B.,	Benson.
Barnes, James Benette, S.B. Com.,	Sims.
Barnes, Lawson Paul, A.B.,	Florence, S. C.
Barnette, Walker, A.B.,	Huntersville.
Barrington, James McLean, S.B. IV,	Gibson.
Baum, Alton Emmett, A.B.,	Fairfield.
Baum, Edward Ossian, A.B.,	Poplar Branch.
Bell, Coy Brevard, A.B.,	Troy.
Bellamy, James Exum, S.B. II,	Enfield.
Bennett, John Trenholm, A.B.,	Rockingham.
Bethea, James McRae, A.B.,	Dillon, S. C.
Birkhead, John Watson, Jr., S.B. Com.,	Ashboro.
Blackwelder, Dwight McNairy, S.B. IV,	Lenoir.
Boatwright, William Heard, A.B.,	Darlington, S. C.
Boney, Paisley, Jr., S.B. Com.,	Goldsboro.
Bost, Alphonso Edward, A.B.,	Matthews.
Bostick, Seth, S.B. Com.,	Charlotte.
Bowden, Bernice Saunders, A.B.,	Burgaw.
Bowden, Mosley Carr, S.B. IV,	Faison.
Bowman, Ernest Franklin, S.B. II,	Newton.
Boyles, Alfred, S.B., I,	Rock Hill, S. C.
Bradley, Augustus, Jr., A.B.,	Burlington.
Bradley, James Albert, S.B. Com.,	Florence, S. C.
Branch, James Stafford, S.B. Com.,	Enfield.
Britt, Charles Rudolph, A.B.,	Lumberton.
Brown, Camillus Elmo, S.B., Com.,	Charlotte.
Brown, Dalma Adolph, A.B.,	Jamesville.
Brown, Gordon, S.B. II,	Elkin.
Brown, Leland Preston, S.B. II,	Hartford, Conn.
Brown, Walter Cornelius, S.B. Com.,	Burlington.
Bryson, Thad Dillard, Jr., S.B. II,	Bryson City.
Burns, Thomas Alexander, A.B.,	Ashboro.
Burton, John Henry, S.B. Com.,	Reidsville.
Burton, Richard Herman, S.B. Com.,	Roxboro.
Butler, Allen Dexter, A.B.,	Liberty.
Butler, Edward Knox, S.B., Com.,	St. Pauls.
Butt, William Harold, S.B. II,	Bonnerton.

Byrum, Albert Gaskins, A.B.,	Edenton.
Capps, Henry Samuel, A.B. in Ed.,	Hendersonville.
Capps, Joseph, A.B.,	Hendersonville.
Carver, Marvin Jefferson, A.B.,	Rougemont.
Castor, Frank Stevens, S.B. Com.,	Concord.
Cates, Clarence Columbus, A.B.,	Edenton.
Cates, John William, S.B. Com.,	Edenton.
Cathey, Robert Alexander, S.B. II,	Salisbury.
Caudle, Elvin Bailey, A.B.,	Raleigh.
Caveness, Shelley Benjamin, A.B.,	Greensboro.
Chaney, John Francis, S.B. II,	Chester, S. C.
Charles, William John, S.B.,	Philadelphia, Pa.
Clark, Samuel Hubert, A.B., in Ed.,	Waxhaw.
Clark, William Alexander, S.B. IV,	Fayetteville.
Clarke, Joe Mast, S.B. Com.,	Statesville.
Clarke, Othel Shepard, A.B.,	Leaksville.
Cobb, Robert Bryan, A.B.,	Fremont.
Coffey, John Nelson, S.B. III,	Raleigh.
Coggeshall, Berryman Edwards, A.B.,	Darlington, S. C.
Coley, Carl Younger, A.B.,	Rockingham.
Colton, Cullen Bryant, A.B.,	Boston, Mass.
Connor, Max Brinson, A.B.,	Belhaven.
Cooper, David Jackson, A.B.,	Henderson.
Cooper, Edwin Bruce, A.B.,	Dunn.
Corbitt, David Leroy, A.B.,	Greenville.
Corey, Joseph Preston, A.B.,	Greenville.
Cowan, Cecil Edmund, A.B.,	Windsor.
Cozart, Ula Hubert, Jr., A.B.,	Wilson.
Crichton, James Hull, A.B.,	Charlotte.
Crisp, George Rountree, S.B. Com.,	Kinston.
Crisp, Roby Bowman, S.B. Com.,	Lenoir.
Crowell, Reginald Alexander, A.B.,	Albemarle.
Dalton, Benjamin Booker, A.B.,	Red Springs.
Darden, Robert Davis, S.B. III.,	Wilmington.
Daughtry, Earl McCoy, S.B. II,	Roanoke Rapids.
Davis, Atwell Lee, A.B.,	Statesville.
Davis, Ernest Judson, A.B.,	Beaufort.
Davis, Lawson Edward, S.B. V,	Albemarle.
Deans, James Elliott, S.B. II,	North Wilkesboro.
Deviney, Earnest Dewitt, A.B.,	Julian.
Dixon, William Thomas, S.B. Com.,	Kinston.
Dobbins, Wiley Edwin, A.B.,	Yadkinville.
Dodderer, William Andrew, S.B. Com.,	Waynesville.
Dowd, Alton Lawrence, A.B.,	Candor.
Doyle, William Harvey, Jr., A.B.,	Charlotte.

Doyle, Wilson Keyser, A.B.,	Charlotte.
Duls, Henry Davis, A.B.,	Charlotte.
Dunn, William Edwin, S.B. Com.,	Kinston.
Eaves, Rupert Spencer, A.B.,	Rutherfordton.
Echols, William Beecher, S.B. Com.,	Kernersville.
Edgerton, Viron Burton, S.B. IV,	Kenly.
Edmundson, Leland Burnice, S.B. Com.,	Goldsboro.
Efird, Abner Bahnson, A.B.,	Winston-Salem.
Ek, August William, S.B. Com.,	Wilmington.
Ellis, Charles Britt, S.B. Com.,	Burlington.
Elsom, Gordon Mack, S.B. II,	Hendersonville.
Eutsler, Roland Byerly, S.B. Com.,	University, Va.
Evans, Charles Rhoads, S.B. Com.,	Manteo.
Farr, William, Jr., S.B. II,	Asheville.
Farrell, Henry Darrow, A.B.,	Parkton.
Faucette, William Jenkins, A.B.,	Durham.
Feagan, Archie Alexander, A.B.,	Columbus.
Ferguson, Charles Lee, S.B. IV,	Waynesville.
Ferree, Ralph Shafter, S.B. Com.,	Ashboro.
Fetter, Edgar Minton, S.B. IV,	Greensboro.
Fields, Cecil McKinzy, S.B. Com.,	Pleasant Garden.
Fish, Gerald Rankin, A.B.,	Clyde.
Flintom, Charles Woods, S.B. I,	Cullowhee.
Fortescue, Z. I., Jr., A.B.,	Scranton.
Fountain, Bracey Frederick, A.B.,	Tarboro.
Foushee, John McIver, S.B. III,	Greensboro.
Freeman, Joseph Franklin, A.B.,	Spencer.
Freeman, James Newton, A.B.,	Dobson.
Freeman, Orville William, S.B. II,	West Orange, N. J.
Fulton, William Forrest, A.B.,	Winston-Salem.
Galimore, George Dewey, S.B. Com.,	Lexington.
Gambill, Walter James, A.B.,	Piney Creek.
Gaskins, Joseph Reid, S.B. Com.,	Greenville.
Giersch, Otto Lumley, S.B. II,	Raleigh.
Gilbert, John Neely, S.B. I,	Statesville.
Gillon, Baxter Monroe, Jr., S.B. Com.,	Concord.
Glenn, Alfonso Grier, A.B.,	Sugar Grove.
Glover, Francis Overstreet, S.B. IV,	Salisbury.
Graham, Daniel Luther, S.B. Com.,	Red Springs.
Green, Winton Wallace, S.B. Com.,	Wilmington.
Greene, Carl Washington, S.B. Com.,	Asheville.
Greenwood, Clyde Percy, A.B.,	Biltmore.
Gregg, James Murphy, A.B.,	Burlington.
Gregory, John Tillery, A.B.,	Salisbury.
Griffin, Henry Felton, A.B.,	Wilson.

Griffin, Josiah Harold, S.B. Com.,	Wendell.
Griffith, John Hammond, Jr., S.B. Com.,	Asheville.
Grimes, James Walter, Jr., A.B.,	Asheville.
Gwynn, William Wardlaw, A.B.,	Leaksville.
Haizlip, James Otis, A.B.,	Reidsville.
Hall, John Perry, A.B.,	Oxford.
Hamer, LeRoy DeWitt, S.B. Com.,	Asheville.
Hardin, Eugene Brooks, A.B.,	Wilmington.
Harding, Franklin Daniel Boone, A.B.,	Yadkinville.
Hare, Ranson Bryant, Jr., A.B.,	Florence, S. C.
Hartsell, Earl Horace, A.B.,	Stanfield.
Hayes, Birchard Platt, S.B. V,	Asheville.
Hayes, Leonard Oscar, Jr., A.B.,	Fremont.
Hedrick, Edward Lawrence, S.B. Com.,	Taylorsville.
Hedrick, Ottis Lee, S.B. Com.,	Lenoir.
Henderson, Garland, S.B. Com.,	Graham.
Herrick, Howard Jay, S.B. Com.,	Williamston.
Herring, Needham Bryan, S.B. II,	Rocky Mount.
Hill, Barrington Taylor, A.B.,	Wadesboro.
Hill, James Allen, A.B.,	Raleigh.
Hill, Vernon Allen, A.B.,	Polkton.
Hogan, Henry Saunders, A.B.,	Chapel Hill.
Holderness, William Henry, A.B.,	Tarboro.
Holshouser, Charles Augustus, S.B. IV,	Salisbury.
Holshouser, Hoy, A.B.,	Winston-Salem.
Honeycutt, Charles Bailey, A.B.,	Raleigh.
Houser, Forest Melville, S.B. IV,	Cherryville.
Huggins, Leonard Victor, A.B. in Ed.,	Hendersonville.
Hunt, William Baker, Jr., S.B. Com.,	Pleasant Garden.
Hunter, William Frank, S.B. I,	Statesville.
Hutchins, John Manning, S.B. Com.,	Winston-Salem.
Hutton, George Norman, S.B. II,	Hickory.
Hyatt, Paul Revere, S.B. Com.,	Waynesville.
Iceman, Charles, Jr., S.B. Com.,	Monroe.
Ingle, Vivion Hargrove, S.B. Com.,	Stony Point.
Irvin, Edward Newell, S.B. Com.,	Charlotte.
Isbell, William Howard, S.B. II,	Lenoir.
Jacocks, Thomas Baker, S.B. II,	Tarboro.
Jarman, Bernard Thompson, S.B. Com.,	Burlington.
Jenkins, Henry Haynes, A.B.,	Avondale.
Johnson, Blackburn Wilson, A.B.,	Gastonia.
Johnson, Eugene Joseph, A.B.,	Burgaw.
Johnson, Herbert Eugene, A.B.,	High Point.
Johnson, Seymour Anderson, S.B. Com.,	Goldsboro.
Johnson, Vernon Clegg, S.B. Com.,	Ashboro.

Jones, Wilbur, S.B. Com.,	High Point.
Joyner, Jack, A.B.,	Garysburg.
Justus, Ernest Lee, A.B.,	Flat Rock.
Justus, George Ewart, S.B. II,	Flat Rock.
Kenney, Stephen Etheridge Winston, S.B. III,	Windsor.
Kesler, John C., A.B.,	Salisbury.
King, Charles Stanton, S.B. Com.,	Asheville.
King, William Elmore, A.B.,	Wise.
Kirkman, Grady Ernest, S.B. Com.,	Randleman.
Lackey, John Cornelius, S.B. Com.,	Hamlet.
Lamb, Frank Wynter, S.B. Com.,	Greensboro.
Lambeth, Harry Lee, A.B.,	Thomasville.
Laney, Emsley Armfield, S.B. Com.,	Monroe.
Langston, William Leslie, S.B. Com.,	Goldsboro.
Larsen, Trygve, S.B. II,	Burlington.
Lassiter, Leroy Irving, S.B. III,	Rich Square.
Lee, Albert Evans, A.B.,	Monroe.
Lee, James Lovette, A.B.,	Mount Olive.
Leggett, William Thomas, A.B.,	Tarboro.
Liles, Lawrence Poland, S.B. II,	Wilsons Mills.
Liles, Nelson Prentiss, A.B.,	Lilesville.
Lindgren, Powell Todd, S.B. Com.,	Charlotte.
Lineberger, Henry Abel, S.B. Com.,	Belmont.
Long, Ruth Virginia, A.B.,	Chapel Hill.
Long, William Marvin, S.B. Com.,	Concord.
Lovin, Leake Gibson, S.B. Com.,	Red Springs.
Lupton, James Harold, S.B. Com.,	Scranton.
Lutz, David Alvin, A.B.,	Granite Falls.
Lyerly, William Rickard, S.B. Com.,	Asheville.
McCain, William Frank, A.B.,	Waxhaw.
McCall, Johnston Vannoy, A.B.,	Charlotte.
McCollum, Charles Edward, S.B. Com.,	Norfolk, Va.
McDonald, Paul Clark, A.B.,	Timberland.
McFadyen, Paul Rutherford, Jr., S.B. IV,	Concord.
McGalliard, John Calvin, A.B.,	Connelly Springs.
McGlaughon, Frank Edmund, A.B.,	Wilmington.
McIntyre, Lawrence Fuller, S.B. II,	Goldsboro.
McKie, Elizabeth Frances, A.B.,	Chapel Hill.
McLean, James Stedman, A.B.-LL.B.,	Lillington.
McNairy, Charles Banks, S.B. IV,	Kinston.
MacRae, Charles Broadfoot, S.B. Com.,	Fayetteville.
Mackie, Nathan Walser, S.B. IV,	Boonville.
Mangum, Ernest Preston, A.B.,	Kinston.
Mann, Frank Bascom, A.B.,	Franklin.
Martin, Norman, S.B. IV,	Asheville.

Mason, Charles Edgar, A.B.,	Kings Mountain.
Mast, James Brady, A.B.,	Mast.
Matthews, Pierce Gorrell, S.B. Com.,	Black Mountain.
Maxwell, Hugh Gordon, S.B. Com.,	Goldsboro.
May, Benjamin, Jr., S.B. Com.,	Sanford.
Mebane, William Marion, A.B.,	Newton.
Meekins, Percy Wilbur, S.B. Com.,	Manteo.
Michal, James Weston, S.B. II,	Woodrow.
Midyette, Bryan Bonner, A.B.,	Aurora.
Midyette, Samuel Buxton, A.B.,	Jackson.
Milstead, Andrew Dallam, A.B.,	Charlotte.
Moore, Charles Allen, A.B.,	Charlotte.
Moore, Leonidas Holt, A.B.,	Faison.
Moore, Larry Ichabod, Jr., A.B.,	New Bern.
Murphy, George Moseley, S.B. I,	Wilmington.
Neiman, Abe Bernard, A.B.,	Charlotte.
Nesbitt, James Teasdale Clark, S.B. IV,	Chapel Hill.
Newby, George Edgar, Jr., A.B.,	Hertford.
Norfleet, Charles Edward, S.B. Com.,	Winston-Salem.
Norwood, Joseph Jackson, A.B.,	Raleigh.
O'Brien, William Lee, Jr., S.B. Com.,	Winston-Salem.
O'Neil, Cedric Lamoine, S.B. Com.,	Clayton.
Overman, Donald Etheldred, S.B. Com.,	Stantonsburg.
Parham, Scott Parker, S.B. Com.,	Henderson.
Parkerson, Joseph Edward, S.B. Com.,	Greenville.
Patrich, Jack Quinerly, A.B.,	Grifton.
Patton, George Tazewell, Jr., A.B.,	Darlington, S. C.
Peeler, Clifford Alexander, S.B. Com.,	Salisbury.
Pendergrass, Edward Julian, A.B.,	Florence, S. C.
Peterson, Roy Douglas, S.B. IV,	Erwin, Tenn.
Petree, Samuel Elmer, A.B.,	Danbury.
Petteway, Elliott Jennings, A.B.,	Jacksonville.
Pickler, Martin Ray, S.B. II,	Salisbury.
Pless, Edwin Justice, S.B. II,	Marion.
Plyler, Dwight, S.B. I,	Monroe.
Pollard, William Albert, Jr., S.B. Com.,	Farmville.
Prescott, Colie Eugene, S.B. Com.,	Ayden.
Presnell, Wilmer Carr, S.B. Com.,	Ashboro.
Privette, Avon, S.B. Com.,	Wakefield.
Purser, John Raymond, Jr., S.B. II,	Charlotte.
Quinn, Raymond Ellis, S.B. Com.,	Elizabeth City.
Ragsdale, George Young, A.B.,	Smithfield.
Ranson, Murphy Dale, S.B. Com.,	Huntersville.
Raper, Arthur Franklin, A.B.,	Welcome.
Raper, John Elisha, S.B. Com.,	Linwood.

Ray, Baxter B., A.B.,	Selma.
Ray, Frederick Chamberlain, S.B. II,	Leaksville.
Ray, John Sherman, A.B.,	Haw River.
Redwine, Thomas Worth, S.B. Com.,	Monroe.
Reid, Charles Lewis, A.B.,	Rutherfordton.
Reitzel, John Brooks, S.B. Com.,	High Point.
Reynolds, Hal Kearns, S.B. Com.,	High Point.
Rice, William Frank, S.B. Com.,	Asheville.
Rickert, James Austin, S.B. Com.,	Asheville.
Roberts, Gratz Linwood, S.B. IV,	Fairfield.
Rollins, Eugene Marvin, Jr., S.B. I,	Henderson.
Sawyer, Carl Rudolph, A.B.,	Aurora.
Schneider, Leon Irving, S.B. Com.,	Gastonia.
Schwartz, Benjamin, S.B. Com.,	Charlotte.
Scott, William DeR., S.B. Com.,	Graham.
Settle, Reuben Reid, A.B.,	Rawlings, Va.
Sevier, Joseph Thomas, Jr., A.B.,	Asheville.
Seyffert, George Francis, S.B. II,	Elizabeth City.
Shackell, Aubrey Earle, A.B.,	Tarboro.
Shell, William Sotherland, S.B. Com.,	Hickory.
Shepard, Robert P., S.B. Com.,	Rockingham.
Shepherd, Malcolm Lauchlin, A.B.,	Burlington.
Shoulars, John Allen, A.B.,	Rich Square.
Shuford, William Talmage, A.B.,	Spencer.
Siewers, Charles Nathaniel, A.B.,	Winston-Salem.
Sloan, Thomas Marshall, S.B. II,	Charlotte.
Smith, Charles Fitzhugh, S.B. II,	Mount Airy.
Smith, Charles Laughinghouse, A.B.,	Greenville.
Smith, Edwin Bretney, S.B. Com.,	Asheville.
Smith, John Elba, S.B. IV,	Pilot Mountain.
Smith, James Millard, A.B.,	Greenville.
Smith, Paul, S.B. IV,	Pikeville.
Smith, William Edward, A.B.,	Scotland Neck.
Smith, William Gordon, S.B., IV,	Faison.
Smith, Whit Joseph, A.B.,	Greenville.
Smithwick, James Etheridge, S.B. IV,	Jamesville.
Somers, William Fletcher, S.B. Com.,	Salisbury.
Spaugh, Frederick Miller, S.B. II,	Winston-Salem.
Spencer, Charles Edwards, A.B.,	Rosemary.
Stanton, John Colfax, S.B. Com.,	Stantonsburg.
Starnes, Jesse Russell, A.B.,	Asheville.
Stauber, Leslie Edwin, S.B. II,	Rural Hall.
Stuart, George Shamburger, S.B. II,	Troy.
Sumner, John David, S.B. II,	Franklinville.
Swain, Julian Haywood, A.B.,	Jerry.

Swink, William Joshua, Jr., S.B. Com.,	China Grove.
Sykes, Glenn Turner, S.B. Com.,	Efland.
Tanner, Jesse Spencer, S.B. Com.,	Charlotte.
Taylor, Leon Bayard, S.B. Com.,	Pikeville.
Thompson, George Butler, S.B. IV,	Southport.
Thompson, George West, S.B. Com.,	Goldsboro.
Thompson, Mary Elizabeth, A.B.,	Chapel Hill.
Thompson, Paul Mac, A.B.,	Mebane.
Thompson, Winbourne, S.B. II,	Winston-Salem.
Timberlake, Julius Poindexter, S.B. Com.,	Louisburg.
Turnage, John Woodley, S.B. Com.,	Ayden.
Turner, Cecil Arline, S.B. IV,	Parmele.
Tyson, Thomas Burwell, A.B.,	Carthage.
Tyson, William Sherrod, S.B. Com.,	Greenville.
Vance, Joseph Addison, Jr., S.B. II,	Winston-Salem.
Waddill, William Baxter, S.B. Com.,	Henderson.
Wainer, David Solemon, S.B. Com.,	Carthage.
Wall, Thomas Diggs, S.B. Com.,	Pee Dee.
Ward, David Livingstone, Jr., A.B.,	New Bern.
Waters, Jay Shirley, S.B. IV,	Ruffin.
Watkins, Straughn Henly, A.B.,	Henderson.
Watts, Wesley C., A.B.,	St. Pauls.
Weaver, Robert Sessoms, S.B. V,	Rich Square.
Webb, Graham, S.B. III,	Asheville.
Weil, Abram, A.B.,	Goldsboro.
Wells, John Thomas, S.B. Com.,	Burgaw.
West, Jasper Daniel, S.B. IV,	Kinston.
Wheeler, William Couch, A.B.,	Chapel Hill.
Whitaker, Harry Foote, S.B. II,	Philadelphia, Pa.
White, Gladstone Huxley, A.B.,	Livingstone, Tenn.
White, Harold G., S.B. Com.,	Asheville.
White, Jarrette Andrew, A.B.-LL.B.,	Whitakers.
White, James Franklin, Jr., S.B. Com.,	Oxford.
White, William Dabney, A.B.,	Beaufort.
White, William Dunlop, S.B. III,	Burlington.
White, William Elliott, A.B.,	Shelby.
Whitehurst, Virgil Norman, A.B.,	Bethel.
Wilkinson, Marcus Alexander, S.B. Com.,	Winston-Salem.
Williams, Alfred, Jr., S.B. Com.,	Raleigh.
Williamson, John Hubert, S.B. Com.,	Carthage.
Williamson, Weldon Edwards, S.B. II,	Asheville.
Wilson, Cecil Gerald, S.B. Com.,	Charlotte.
Wilson, Joseph Von, A.B.,	Lumberton.
Winders, Hal Marion, A.B.,	Fremont.
Windley, Jack Lynwood, S.B. IV,	Swan Quarter.

Wofford, Walter Thomas, A.B.,	Roanoke Rapids.
Wolfe, Frank James, S.B. Com.,	Asheville.
Woodard, James Edwin, A.B.,	Wilson.
Woodard, Thomas Hadley, A.B.,	Wilson.
Wooten, Robert Southerland, S.B. Com.,	Mount Olive.
Workman, Frank Leslie, S.B. I,	Burlington.
Wright, Robert Hardaway, Jr., S.B. III,	Asheville.
Wright, Thomas Bernard, A.B.,	Greensboro.
Wynne, George Bennett, S.B. III,	Greensboro.
Yarley, Chalmers Benjamin, A.B.-LL.B.,	Walterboro, S. C.
Young, Willoughby Foster, A.B.,	Wilson.
Youngblood, Norman Edgar, Jr., S.B. Com.,	Fayetteville.
Zollicoffer, John Hilliard, A.B.,	Henderson.

Special Students

Ader, Ottis Lado, Premed.,	Advance.
Alexander, James Moffatt, Premed.,	Statesville.
Allen, Robert Purnell, Spec. Com.,	Weldon.
Alley, Reuben Gertrude, Premed.,	Greensboro.
Anderson, Lester Lawrence, Premed.,	Advance.
Austin, Clarence Moore, Special,	Charlotte.
Barnes, James Thomas, Jr., Premed.,	Kenly.
Barnes, Tony, Premed.,	Wilson.
Battle, James Smith, Spec. Com.,	Tarboro.
Battle, Newsom Pittman, Premed.,	Tarboro.
Beasley, Charles Trevelyen, Premed.,	Tampa, Fla.
Bias, Clyde Harold, Special,	Salisbury.
Bissette, William Cefaire, Premed.,	Bailey.
Blackwelder, Robert Guy, Premed.,	Concord.
Blake, Paul Owen, Premed.,	Chadbourn.
Blue, William Eugene, Premed.,	Fayetteville.
Boettcher, Otto Heath, Special,	Elizabeth City.
Bonner, Merl Dumont, Premed.,	Aurora.
Bonner, William Shaw, Premed.,	Washington.
Boone, Edward Lawrence, Premed.,	Rich Square.
Booth, Hubert Edwin, Premed.,	Catawba.
Bourne, William Camillus, Special,	Asheville.
Bradford, Benjamin Hayes, Premed.,	Oxford.
Britt, Reddin, Premed.,	Lumberton.
Brown, Earl Henderson, Jr., Premed.,	Concord.
Brown, Kermit English, Premed.,	Waverly.
Bryan, Thomas Randall, Jr., Premed.,	Brooklet, Ga.
Bryan, William Carroll, Premed.,	Newton Grove.
Bryant, Eugenia, Special,	Covington, Ky.

Buchanan, Thomas Ryland, Special,	Staunton, Va.
Burns, Howard Franklin, Spec. Com.,	Carthage.
Byerly, Marshall Paul, Premed.,	Lexington.
Carmon, William Bennett, Premed.,	Gibsonville.
Carpenter, Robert Edgar, Special,	Cliffside.
Carroll, Bryant S., Premed.,	Winterville.
Carroll, Robert Lide, Premed.,	Columbia, S. C.
Carson, Boyce Galloway, Premed.,	Bessemer City.
Cato, Alma Odeska, Special,	Chapel Hill.
Caton, George Allen, Jr., Premed.,	New Bern.
Coble, Floyd Garland, Premed.,	Greensboro.
Cole, Roy Enoch, Premed.,	Pittsboro.
Coleman, Charles Winstead, Premed.,	Lyons.
Comer, William Ernest, Premed.,	New Castle.
Cooper, Esther, Spec. Pub. Welf.,	Danville, Ill.
Corbett, Haywood William, Special,	Whitakers.
Cornelius Chalmers Edgar, Premed.,	Mooresville.
Cornwell, Abner Milton, Premed.,	Lawndale.
Cowan, Isaac Baker, Premed.,	Bristol, Tenn.
Cox, Vernon Henderson, Premed.,	Winston-Salem.
Crane, Grover Cleveland, Spec. Pub. Welf.,	Atlanta, Ga.
Crawford, Marion Lipscomb, Spec. Pub. Welf.,	Ocean View, Va.
Crenshaw, Ruth Cathey, Spec. Pub. Welf.,	Union City, Tenn.
Cross, Cathryne, Premed.,	Gatesville.
Cross, William Thomas, Jr., Premed.,	Gatesville.
Crumpler, Claudius Ollin, Premed.,	Huntley.
Daniels, Archie Shields, Premed.,	Hilton Village, Va.
Davis, Dwight Groome, Premed.,	Greensboro.
Deaton, Hobart Obil, Premed.,	Spies.
DeHart, Horace Maxwell, Premed.,	Bryson City.
DeVaughn, Elizabeth Southworth, Spec. P. W.,	Cincinnati, Ohio.
Dickson, Robert Lee, Premed.,	Grassy Creek.
Ditmore, Harry Boaz, Premed.,	Bryson City.
Douglass, Jay Barnette, Special,	Winston-Salem.
Downing, Dennis Garland, Special,	Cedar Creek.
Durham, Carey Winston, Premed.,	Chapel Hill.
Epstein, Leonard, Special,	Goldsboro.
Eubanks, Margaret Elizabeth, Special,	Chapel Hill.
Evans, Atha West, Premed.,	Dover.
Farrior, Marsden Lee, Premed.,	Rose Hill.
Gallagher, Patrick Northey, Premed.,	Durham.
Gay, Robert Bennett, Premed.,	Gumberry.
Gholson, Thornton Patton, Special,	Henderson.
Gilreath, Robert Arthur, Premed.,	Hendersonville.
Gorham, Herbert Jenkins, Premed.,	Tarboro.

Grainger, Jesse Willis, Premed.,	Kinston.
Grant, Freeman Augustus, Premed.,	Sneads Ferry.
Grant, Percy Granville, Spec. Com.,	Sneads Ferry.
Griffin, Edward Foster, Premed.,	Louisburg.
Griffin, Hugh Patrick, Premed.,	Reidsville.
Grose, Claude Harve, Premed.,	Forest City.
Halsey, Leonard Kaney, Premed.,	Piney Creek.
Hamrick, Forest Wylie, Special,	Shelby.
Harrell, William Horace, Premed.,	Mamie.
Harris, Willie Thomas, Premed.,	Mount Gilead.
Hawfield, Henry Grady, Spec. Com.,	Matthews.
Head, William Gwynne, Premed.,	Rockingham.
Heath, Forest Gage, Premed.,	Statesville.
Hege, Raymond Webster, Premed.,	Clemmons.
Herron, Fred Julian, Premed.,	Biltmore.
Hodgin, David Reid, Special,	Sanford.
Hofler, Ralph Hayes, Premed.,	Gatesville.
Hogan, Kenneth Page, Special,	Winston-Salem.
Holmes, Clayton Carr, Special,	Council.
Hunt, William Ernest, Premed.,	Oxford.
James, Robert Ervin, Spec. Com.,	Darlington, S. C.
Jernigan, Mack Murphy, Special,	Dunn.
Johnson, Archie, Spec. Com.,	Greensboro.
Johnson, Emmett Carlton, Premed.,	Cedar Creek.
Johnson, James Duncan, Premed.,	Atkinson.
Johnson, Joseph Thurman, Premed.,	Durham.
Johnson, Pearsall Philander, Premed.,	Mullens, S. C.
Johnston, Alfred Arrington, Premed.,	Rocky Mount.
Johnston, Wilfred Ivey, Special,	Charlotte.
Jordan, Mills Morrison, Premed.,	Hamlet.
Joyner, Ruth Deans, Premed.,	Wilson.
Keever, James Woodfin, Premed.,	Hickory.
Keith, Judson Ellis, Premed.,	Northside.
Kelly, Herbert Thomas, Premed.,	Fayetteville.
Kiser, Henry Lester, Special,	Bessemer City.
Kistler, Alvin Russell, Premed.,	Lawndale.
Kitchin, Marcus Reid, Special,	Biltmore.
Lathery, Espy Franklin, Premed.,	Cornelius.
Laughinghouse, Charles O'Hagan, Jr., Spec.,	Greenville.
Lay, Ellen Booth, Spec. Pub. Welf.,	Beaufort.
Leak, Everett Maggette, Premed.,	Rich Square.
Lennon, William Earle, Premed.,	Manteo.
Little, Lonnie Marcus, Premed.,	Statesville.
Livengood, Baxter Alphonso, Premed.,	Winston-Salem.
Llorens, Fernando, Special,	Santiago de Cuba, Cuba

London, Arthur Hill, Premed.,	Pittsboro.
Lowrance, Carlos Uriah, Special,	Catawba.
Lynn, Clabe Webster, Premed.,	Raleigh.
Lynn, Jerome Worth, Premed.,	Raleigh.
Lyon, Thomas Christian, Special,	Creedmoor.
McCoy, Cullen Miles, Premed.,	Cove City.
McKaughan, Gates Edwin, Premed.,	Kernersville.
McMaster, Bessie Gregg, Spec. Pub. Welf.,	Winnsboro, S. C.
McMichael, James Gorrell, Premed.,	Wentworth.
Maddry, Joseph Thomas, Premed.,	Seaboard.
Malpass, Bishop Lemley, Premed.,	Goldsboro.
Martin, Julius, II, Special,	Asheville.
Matheson, Robert Arthur, Jr., Premed.,	Raeford.
Matthews, Theodore Crenshaw, Spec. Com.,	Clinton.
Miles, Lapsley Barrow, Premed.,	Mooresville.
Mills, Ralph Tyree, Premed.,	Apex.
Misenheimer, Ed Alexander, Premed.,	Concord.
Mobley, John Warren, Special,	Charlotte.
Moore, Nicholas Gibbon, Premed.,	Mooresville.
Morris, Fred Detwiley, Special,	Gastonia.
Morton, Levi Thomas, Premed.,	Jacksonville.
Myers, Dwight Loftin, Premed.,	Jennings.
Neville, Cecil Harrell, Premed.,	Whitakers.
Newton, Zachariah Boardman, Premed.,	Hope Mills.
Norburn, Russell Lee, Premed.,	Acton.
Odum, William Henry, Special,	Waycross, Ga.
Ormond, John William, Premed.,	Bessemer City.
Osborne, Benjamin Augustus, Premed.,	Ninety Six, S. C.
Overcash, William Earle, Premed.,	Statesville.
Palmer, Archibald William, Premed.,	Gulf.
Parshley, Philip Ford, Premed.,	Clinton.
Pittman, Nazareth Rowland, Premed.,	Fayetteville.
Prescott, James Carlyle, Premed.,	Ayden.
Rawls, Hubert Jesse, Special,	Robersonville.
Reedy, Leaholme Law, Premed.,	Clio, S. C.
Richardson, Helen Ridgely, Spec. Pub. Welf.,	Washington, D. C.
Robinson, Edmund Eugene, Premed.,	Concord.
Rogers, Leroy Buxton, Spec. Com.,	Asheville.
Rohleder, Eugene Carlyle, Special,	Charlotte.
Roseman, Milo A. Jackson, Premed.,	Salisbury.
Rowe, Alton Floyd, Spec. Com.,	Raleigh.
Savley, Eva Davis, Spec. Pub. Welf.,	Clearwater, Fla.
Sasser, Kirby Cleveland, Premed.,	Kenly.
Savage, Carl Preston, Premed.,	Rose Hill.
Sawyer, Charles Judson, Premed.,	Windsor.

Scott, McDonald, Premed.,	Washington.
Scruggs, William Joseph, Premed.,	Brevard.
Shearouse, Fred LaRoche, Special,	Brooklet, Ga.
Sinclair, David Cunningham, Special,	Wilmington.
Sisk, Charles Jones, Premed.,	Bryson City.
Sisson, Henry Eugene, Spec. Pub. Welf.,	Atlanta, Ga.
Smith, Harry Bryant, Premed.,	Fremont.
Smith, Jake McCrackin, Special,	Chapel Hill.
Smith, Sidney Silas, Premed.,	Fremont.
Smith, Thomas Julian, Premed.,	Davidson.
Staley, Abram Wills, Spec. Com.,	Greensboro.
Stalvey, Archie Boyd, Jr., Premed.,	Roxboro.
Staton, Hilliard Vincent, Premed.,	Hendersonville.
Steele, Emily Sutherland, Spec. Pub. Welf.,	Boston, Mass.
Stevenson, Samuel Harris, Special,	Loray.
Stillwell, Harry Clifford, Premed.,	Webster.
Strickland, Norman Rupert, Premed.,	Middlesex.
Sudlow, Ethel, Spec. Pub. Welf.,	Aiken, S. C.
Sumner, Howard Leon, Premed.,	West Asheville.
Swain, Wilbert Jacob, Premed.,	Jerry.
Swiggart, Mary Fields, Spec. Pub. Welf.,	Union City, Tenn.
Talton, William Jennings, Premed.,	Selma.
Tarpley, Roberta Deery, Spec. Pub. Welf.,	Nashville, Tenn.
Taylor, Dora Ashby, Spec. Pub. Welf.,	Richmond, Va.
Taylor, Joseph Mitchell, Special,	Chocowinity.
Taylor, Rives Williams, Premed.,	Oxford.
Tenney, Edwin Wright, Special,	Chapel Hill.
Teu, Sanfjord Brogdyne, Special,	Godwin.
Thomas, Lawrence Allen, Premed.,	Greensboro.
Thomas, Luther Austin, Spec. Com.,	Asheville.
Thompson, Walter Milton, Jr., Special,	Jacksonville.
Thornton, Emmett Leonel, Premed.,	Mebane.
Turner, Samuel Monroe, Premed.,	North Wilkesboro.
Underwood, Alvin Duke, Premed.,	Bailey.
Upchurch, Roy Wakefield, Premed.,	Oxford.
Wall, James Hardin, Premed.,	Chester, S. C.
Ware, Freno Samuel, Special,	Kings Mountain.
Watson, Eric George Guilford, Special,	Aurora.
Watson, Marion Rutherford, Spec. Pub. Welf.,	Washington, D. C.
Weaver, Harold Johnson, Premed.,	Olin.
White, Charles Sterling, Premed.,	Stovall.
Whittington, Claude Thomas, Premed.,	Greensboro.
Widenhouse, Martin Aubrey, Premed.,	Concord.
Williams, Frank Webb, Premed.,	South Mills.
Williams, Louisa Sanders, Spec. Pub. Welf.,	Dunn.

Williamson, Arthur, Premed.,	Salemburg.
Womack, Anderson William, Special,	Mill Springs.
Woodard, Warden Lewis, Special,	Whartonsville.
Wright, Ann Puryear, Spec. Pub. Welf.,	Gallatin, Tenn.
Yarborough, James Elmo, Premed.,	Spring Hope.

Students in Law

Allen, William Marion, Second,	Elkin.
Allen, William Reynold, Jr., Second, A.B., 1917.	Goldsboro.
Arrington, Samuel Lewis, First,	Rocky Mount.
Ashby, Clarence Garnett, First,	Raleigh.
Austin, Clarence Moore, Second,	Charlotte.
Aycock, John Yancey, First,	Black Creek.
Bass, Nathan Roscoe, Second,	Lucama.
Baugham, William Mason, First,	Rich Square.
Bivens, Jay, Special,	Aquadale.
Blackwelder, Buford William, First,	Concord.
Boney, Daniel Clinton, Special,	Kinston.
Brantley, Dwight, Second,	Spring Hope.
Brantley, Hobart, Second,	Spring Hope.
Brown, Bryant Council, First,	Sneads Ferry.
Brown, Robert Edward Lee, First,	Chadbourn.
Carlyle, Frank Ertel, Second,	Lumberton.
Carr, Leo, Second, A.B., 1918.	Teacheys.
Carroll, Adrian Meredith, First,	Burlington.
Cashatt, Ivey Wesley, First,	Jamestown.
Cates, John Lloyd, First,	Burlington.
Coburn, Robert Lee, First,	Dardens.
Combs, Anthony Rush, First,	Leaksville.
Cooper, Thomas Duncan, Second,	Graham.
Crowell, James Lee, Jr., First,	Concord.
Currie, Ernest McArthur, Second,	Fayetteville.
Davis, Walter A., Special,	Warrenton.
Edmundson, Paul B., Second,	Goldsboro.
Edwards, Enos Tyler, Special,	Polkton.
Fesperman, Gideon Van Poole, First,	Spencer.
Frazier, Robert Haines, First,	Greensboro.
Gardner, Wade Anderson, First,	Wilson.
Grier, Frank Luttrell, First,	Statesville.
Hammerly, Joseph McCants, First,	Charlotte.
Harrell, Beemer Clifford, First, A.B., 1917.	Marshville.

Harris, William Durham, Second, Sanford.
A.B., 1916, College of William and Mary.
Harris, Wiley Rowe, First, Folkton.
Harshaw, Moses Richard, First, Lenoir.
Hawfield, Robert Roy, Second, Matthews.
Hawkins, Tom Williams, Jr., First, Charlotte.
A.B., 1920, Davidson College.
Herman, Preston Winfield, First, Conover.
Herring, Paul Dominic, First, Clinton.
Hicks, Jasper Benjamin, Second, Henderson.
Hodges, Daniel Merritt, Jr., Second, Asheville.
Holdings, Clem Bolton, Second, Neuse.
Horton, Phineas Edgar, Jr., First, Winston-Salem.
Hunnicutt, Johnnie Will, First, Asheville.
Isear, David Wesley, Second, Wilson.
Jarman, Lawrence Wooten, First, Seven Springs.
A.B., 1920.
Jenkins, Kelly, First, Roanoke Rapids.
Jernigan, Mack Murphy, Second, Dunn.
Johnson, Samuel David, Special, Angier.
Jordan, John Yates, Jr., Second, Asheville.
Kernodle, Lovick Harden, First, Graham.
Kiser, Roger Clinton, First, King.
A.B., 1919, Guilford College.
Lewis, Warner Meriwether, First, Darlington, S. C.
Liipfert, Benjamin Bailey, Second, Winston-Salem.
Lisk, Merrell Cerdell, Second, Mount Gilead.
Llewellyn, Clement Manly, Second, Dobson.
McCall, Zebulon Archibald, Second, Elmo.
B.S., 1919, N. C. State College of Agric. and Eng'g.
Macaulay, Hugh Morrison, First, Charlotte.
McKinnon, Daniel Frather, Second, Rowland.
McMichael, John Erle, First, Winston-Salem.
Matthews, William Elmer, Second, Clinton.
Maupin, William Chapman, Jr., First, Salisbury.
Melton, Darling Jackson, Special, Monroe.
Miles, Forrest Glenwood, Second, Warrenton.
A.B., 1919.
Mitchell, John Gulick, Second, Oxford.
Moody, Ralph Manning, First, Murphy.
Moore, Thomas Owen, First, New Bern.
Morris, Samuel Jesse, First, Mesic.
Newman, Isaac Bear, First, Wilmington.
Nichols, Charles Leslie, Second, Brevard.

Norfleet, Eric, Second,	Roxobel.
Norris, John Ernest, Second,	Holly Springs.
Oliver, Charles Hampton, First,	Oak Ridge.
Paylor, John Hill, Second,	Laurinburg.
Penny, William Burbank, Second,	Hendersonville.
Perdue, William Clyde, Special,	Henderson.
Pharr, Neal Yates, Second,	Charlotte.
A.B., 1919, Davidson College.	
Pittman, J. Carlton, Second,	Gates.
Prescott, Marion Butler, First,	Ayden.
Prevatt, William Jasper, Jr., First,	Lumberton.
Pritchett, John Albert, Second,	Rawlings, Va.
Proctor, Edward Knox, Second,	Lumberton.
A.B., 1917.	
Proctor, John Gilliam, Second,	Lumberton.
Rand, Oliver Gray, Second,	Garner.
A.B., 1917.	
Rendleman, John Luther, Jr., First,	Salisbury.
Ripple, Hoyle Clifton, First,	Welcome.
Rives, Edwin Earle, Second,	Greensboro.
Robertson, George David, Second,	Asheville.
Robinson, Alton Hampton, First,	Asheville.
Rucker, Richmond, First,	Winston-Salem.
Scarborough, Dawson Emerson, Second,	Hoffman.
Shaw, Eugene Guilford, Special,	Greensboro.
Shaw, William Tolman, Second,	Raleigh.
Sledge, William Whitfield, Second,	Weldon.
Spruill, Frank Shepherd, Jr., First,	Rocky Mount.
Stevens, Henry Leonidas, Jr., Second,	Warsaw.
Stokes, Thomas Dodds, First,	Reidsville.
A.B., 1918.	
Sullivan, William Addison, Special,	Asheville.
Teague, Lewis Everett, Special,	High Point.
Thorp, Isaac Davenport, First,	Rocky Mount.
Tucker, Joseph Granbery, First,	Plymouth.
Whitmire, Robert Lee, Second,	Hendersonville.
Wilson, Horace Reginald, First,	Rose Hill.
Wilson, Thomas James, III, First,	Chapel Hill.
Wimberley, George Lewis, Second,	Rocky Mount.
Womble, William Brantley, Second,	Cary.
Worthington, Samuel Otis, Second,	Winterville.
Yelverton, William Bayard, Second,	Goldsboro.

Students in Summer School of Law

Alexander, Uhlman Seymour, Charlotte.
A.B., 1915, Davidson College.
Allen, William Reynold, Jr., Goldsboro.
A.B., 1917.
Baggett, Jesse Venon, Salemburg.
A.B., 1918.
Barden, Graham Arthur, Burgaw.
LL.B., 1920.
Bowman, Frederick Oscar, Berea, Ky.
LL.B., 1920.
Brittain, John Moore, Ashboro.
Carr, Leo, Teacheys.
A.B., 1918.
Clement, Louis Heyl, Jr., Salisbury.
Coburn, Robert Lee, Dardens.
Daniel, Charles Rufus, Weldon.
A.B., 1916, LL.B., 1920.
Dortch, Hugh, Goldsboro.
Dunn, James Allan, Huntersville.
Fagge, Harry Lee, Leaksville.
Feimster, Walter Connor, Jr., Newton.
A.B., 1919.
Freeman, George Kirby, Goldsboro.
Garrett, Charles Grady, Hamlet.
Hale, Ellis Scott, Mount Airy.
Hammerly, Joseph McCants, Charlotte.
Harrell, George A., Henderson.
Harris, Joseph Johnson, Bunn.
A.B., 1916.
Harvey, Wiley Frank, Littleton.
Hatcher, Matthew James, Mount Olive.
A.B., 1918.
Hill, John Bright, Warsaw.
A.B., 1917.
Howell, James Spears, Asheville.
Jackson, Hosea M., Clinton.
Jarman, Lawrence Wooten, Seven Springs.
A.B., 1920.
Jernigan, Mack Murphy, Dunn.
Kennedy, James Connor, Moltonville.
A.B., 1918.
King, George Watts, Charlotte.

Marshall, T. T., Lakeland, Fla.
Matthews, William Elmer, Clinton.
Orr, Frank Wylie, Charlotte.
A.B., 1915, Westminster College.
Palmer, John Brame, Warrenton.
A.B., 1908.
Paylor, John Hill, Laurinburg.
Phillips, Robin Fletcher, Raleigh.
Polk, William Tannahill, Warrenton.
A.B., 1917.
Revell, Marvin Stanford, Kenly.
A.B., 1914. Elon College.
Roberts, Julian Guion, New York, N. Y.
Robinson, Kathrine McDiarmid, Fayetteville.
LL.B., 1920.
Shaw, Duncan, Fayetteville.
A.B., 1916, Davidson College.
Shuford, George Adams, Asheville.
LL.B., 1917, Univ, of Ga.
Umstead, William Bradley, Bahama.
A.B., 1916.
Walker, Harvey Harrison, New Castle.
Younce, George Alexander, Spencer.
A.B., 1919.

Students in Medicine

Anderson, Alan Ramseur, Second, Statesville.
A.B., 1915, A.M., 1916, Trinity College.
Anderson, Richard Speight, First, Whitakers.
Arrasmith, Thomas Milton, Jr., First, Hillsboro.
Aycock, Thomas Bayron, First, Pikeville.
Bizzell, Marcus, Edward, Jr., Special, Goldsboro.
Boone, William Waldo, Second, Durham.
Brinn, Thomas Preston, Second, Hertford.
A.B., 1919.
Byerly, Wesley Grimes, Second, Cooleemee.
Caldwell, Daniel Greenlee, Second, Concord.
Conoly, James Halbert, First, Maxton.
Cook, Joseph Lindsay, First, Winston-Salem.
Costner, Walter Vance, First, Lincolnton.
Crisp, Sellers Mark, Jr., Second, Falkland.
B.S., 1916, M.A., 1917, Davidson College.
Daughtridge, Arthur Lee, First, Rocky Mount.
Davenport, Carlton Alderman, First, Mackeys.

Elliott, George Douglas, Second, Thornwall.
Fields, Daniel Allen, First, Laurinburg.
Fowler, Louis McCargo, First, Greensboro.
Fox, Norman Albright, First, Guilford College.
B.S., 1920, Guilford College.
Fritz, Herber Hewitt, First, Hickory.
A.B., 1919, Lenoir College.
Goley, Willard Coe, First, Graham.
Goodwin, Oscar Sexton, Second, Apex.
Groome, James Gordon, First, Greensboro.
A.B., 1919, Trinity College.
Hambrick, Robert Theodore, Second, Roxboro.
A.B., 1919, Trinity College.
Henderlite, John Warren, First, Raleigh.
Herman, Charles Bernard, Second, Conover.
A.B., 1919, Lenoir College.
Hughes, Samuel Edwin, Jr., Special, Danville, Va.
Jarman, Forest Ruel, First, Seven Springs.
Johnson, Harry Lester, First, Siler City.
Jones, Robert DuVal, Jr., First, New Bern.
A.B., 1920.
Jones, Thaddeus Elmore, First, Kenansville.
Kellum, Eugene LeRoy, First, Norfolk, Va.
Kimberly, David, Jr., First, Asheville.
McGee, Julian Murrill, First, Mount Olive.
Martin, Paul Todd, First, Salisbury.
Massey, Charles Caswell, Second, Princeton.
Merritt, Zeran Lewis, Second, Bolton.
A.B., 1919, Trinity College.
Miner, Allen Alexander, First, Augusta, Ga.
Mitchell, Thomas Brice, First, Shelby.
Monroe, Clement Roseburg, Second, Biscoe.
Moore, Robert Ashe, Second, Statesville.
B.S., 1918, College of Charleston.
Morris, George Dillon, First, Goldsboro.
Murray, Robert Lebby, Second, St. Pauls.
B.S., 1917, Davidson College.
Parker, George Farrar, Second, Asheville.
A.B., 1917.
Parker, John Merrel, First, Chapel Hill.
A.B., 1916.
Parks, Walter Beatty, First, Huntersville.
Patterson, Fred Marion, First, Concord.
Ph.G., 1920.
Richardson, George Alexander, Second, Dover.

Riggins, Hazel McLeod, First,	Matthews.
Roberts, Bennett Watson, First,	Gatesville.
Robertson, Edwin Mason, First,	Woodsdale.
Rourk, William Asbury, Jr., First,	Shallotte.
Sawyer, Blackwell, First,	Elizabeth City.
Schenck, Sam Moore, Second,	Lawndale.
Shaw, John Alexander, Second,	Fayetteville.
B.S., 1918, Davidson College.	
Smith, Randall Collins, Second,	New Bern.
Smith, Robert Edwin, Second,	Mount Airy.
Spikes, Norman Owen, First,	East Durham.
A.B., 1920, Trinity College.	
Sumner, George Herbert, Second,	Franklinville.
Swift, Vance Everette, Second,	Altamahaw.
Tayloe, Josh, Second,	Washington.
Toy, Calvert Rogers, Second,	Chapel Hill.
A.B., 1920.	
Warren, Bryan Pope, First,	Blounts Creek.
West, Bryan Clinton, First,	Kinston.
B.A., 1920, Wake Forest College.	
White, Carl Wilma, Second,	Danville, Va.
Whitehead, Edward Morris, Special,	Salisbury.
Wilson, Leonard Livingstone, First,	Mount Olive.
A.B., 1920, Davidson College.	
Wimberley, Benjamin Bunn, Second,	Rocky Mount.
Winstead, John Lindsay, First,	Elm City.
Womack, Nathan Anthony, First,	Reidsville.
Yarborough, Frank Ray, First,	Cary.
A.B., 1920, Trinity College.	
Yoder, Paul Allison, Second,	Newton.
A.B., 1916, Lenoir College.	

Students in Pharmacy

Arps, Ernest Guilford, Spec.,	Plymouth.
Baker, Walter Presley, Spec.,	Raeford.
Beddingfield, Charles David, Second,	Wakefield.
Black, Bonner Brevard, Spec.,	Marshville.
Bradshaw, Addie Lee, First,	Lenoir.
Bristow, Ellie Burton, First,	McColl, S. C.
Brooks, Frank Gibbons, Spec.,	Siler City.
Burgess, Reuben Victor, First,	Rich Square.
Cain, Leighton Dewey, Spec.,	Fayetteville.
Campbell, Francis Earle, First,	Fayetteville.
Cobb, James Louis, Second,	Mount Olive.

Craven, Oliver Kenneth, First,	Charlotte.
Davis, Clifford Vernon, Spec.,	Southport.
Davis, Philip Bibb, First,	Greensboro.
Denton, Albert Earl, Spec.,	Asheville.
Edwards, Otho Crowell, Spec.,	Raleigh.
Fleming, Fred Henry, First,	Fuquay Springs.
Furr, Fitzhugh Lee, Spec.,	Star.
Gamble, Joseph Paul, Spec.,	Waxhaw.
Gibson, Allison McLaurin, Second,	Gibson.
Glenn, Jamerson Samuel, First,	Pittsboro.
Guion, Clayton Lloyd, First,	Monroe.
Guion, Howell Newton, Second,	Unionville.
Guiton, John Albert, First,	St. Pauls.
Hall, Sam Cannady, First,	Oxford.
Harrell, John William, Jr., Spec.,	Beaufort.
Harris, Henry William, Spec.,	Catawba.
Hicks, Henry Thomas, First,	Raleigh.
Hunt, Claire Harris, Spec.,	Henderson.
Jackson, Leonidas, First,	Cooper.
Jacobs, Marion Lee, Third,	Morrisville.
Johnson, James Edwin, First.	Wallace.
Jordan, Dillon Leroy, First,	Aberdeen.
Lamm, Lewis Marion, First,	Lucama.
Langdon, Ralph Edward, First,	Coats.
Layton, Clifton Charles, First,	Sanford.
Leeper, Milton Augustus, First,	Belmont.
Livingston, David McInnis, Spec.,	Lumber Bridge.
McDonald, William Russell, Jr., Spec.,	Waxhaw.
McDowell, Norfleet Owen, First,	Scotland Neck.
Melvin, Marion Butler, Spec.,	Roseboro.
Merritt, Nello Harward, Spec.,	Carrboro.
Millaway, Eugene Delano, Spec.,	Greensboro.
Miller, Wortha Willard, Spec.,	Rock Hill, S. C.
Moore, Ernest Edward, First,	Granite Falls.
Mundy, James Coleman, First,	Newton.
Padgett, Everett Lee, Second,	Marion.
Phillips, William Bryant, Spec.,	Wilson.
Pool, Walter Loomis, Spec.,	Raleigh.
Propst, Garah Denson, First,	Concord.
Prout, William Allen, Second,	Webster, Ky.
Reaves, Edwin Leroy, Second,	Raeford.
Richardson, Hobert William, Spec.,	Ashboro.
Rimmer, Robert Meril, Spec.,	Mebane.
Robbins, Holleman Harris, Second,	Raleigh.
Rush, George Washington Carr, Spec.,	Biscoe.

Senter, Plennie Lloyd, Spec.,	Raleigh.
Siske, Grady Cornell, Second,	Pleasant Garden.
Speed, Robert Ransom, Special,	Franklinton.
Tripp, Guy Oscar, First,	Ayden.
Turnmire, Arthur Pleasant, Spec.,	Granite Falls.
Utley, Herbert Sherrill, First,	Benson.
Walker, Archie Duval, First,	Currie.
White, John Albert, First,	Belhaven.
Williams, John Cossie, First,	Bessemer City.
Willis, Robert Moore, First,	Southport.
Wilson, George Sparrow, Second,	Gastonia.
Wrike, Curtis Walter, First,	Graham.

SUMMER SCHOOL STUDENTS, 1920

Graduate and Undergraduate Students

Abelkop, Isador Meyer,	Durham.
Abernethy, Ernest Henry,	Hickory.
Adams, Roby Washington,	Four Oaks.
A.B., 1916, Trinity College.	
Albright, Walter Hatch,	Liberty.
Ph.B., 1893, Elon College.	
Alexander, Maxie Miller,	Creswell.
Allen, John Elsie,	Star.
Allen, Sallie,	Warrenton.
Anderson, Elsie Corinne,	Hendersonville.
A.B., 1918, N. C. College for Women.	
Anderson, Roy Ritter,	London, Tenn.
A.B., 1918, Maryville College, (Tenn.)	
Anderson, Richard Speight,	Whitakers.
Andrew, Agnes Goldie,	Sedalia.
A.B., 1919, Catawba College.	
Andrews, Columbus,	Granite Falls.
Andrews, Lila Dwight,	Chapel Hill.
Andrews, Troy Monroe,	Chapel Hill.
A.B., 1914; S.M., 1917.	
Arrowood, Fred Monroe,	Bessemer City.
Avery, William Johnston,	Morganton.
Aycock, John Yancey,	Black Creek.
Babbitt, Elizabeth Clarke,	New Bern.
Bacon, Frank Robbins,	Charlotte.
Bacon, Mabel Louise,	Charlotte.
B.S., 1916, Catawba College.	
Bailey, Hubert Victor,	Neuse.
A.B., 1916.	
Baldwin, Annie Elizabeth,	Apex.
Banks, Hubert Cyrus,	Grantsboro.
Barefoot, William Jefferson,	Benson.
Barnes, John Thomas, Jr.,	Wilson.
Beam, Gladys Mae,	Roxboro.
Beard, Meek Ellen,	Cornelius.
Beaty, Bertie Elizabeth,	Huntersville.
Bell, Allen Jefferson,	Brasstown.
Bell, Robert Purdy,	Concord.

Bender, John Alpheus, Polloksville.
Best, John Harper, Greensboro.
Black, George Weaver, Mt. Holly.
Black, Lillian Reah, Manchester.
A.B., 1906, Flora Macdonald College.
Blue, William Eugene, Fayetteville.
Bolick, Leo Ernest, Gastonia.
A.B., 1915, Lenoir College.
Booe, Phil Henry, Walkertown.
Bowden, Willie Colon, Maxton.
Boyd, Elizabeth Jane, Candor.
Bradsher, James Sidney, Jr., Oxford.
A.B., 1917, Trinity College.
Braswell, James Craig, Jr., Rocky Mount.
Brewer, Thomas Clayton, Marshville.
Bridger, Evelyn Barrett, Lewiston.
Brinson, Marion B., Grantsboro.
Broadwell, Esther Maurine, Wendell.
Brooks, Clyde Kenneth, Greensboro.
Brown, Ethel James, Catawba.
A.B., 1915, Meredith College.
Brown, Helen Margaret, Chapel Hill.
Brown, Janie Peele, Woodland.
A.B., 1911, Guilford College.
Brown, Mary Wilson, Yanceyville.
Bryan, Joseph Shepard, Wilmington.
A.B., 1915.
Buck, David M., Jr., Bald Mountain.
Bullock, Henry Harrison, Fuquay Springs.
Burgess, Fred Ross, Ramseur.
Burke, Tama, Goldsboro.
Butt, Israel Harding, Chapel Hill.
A.B., 1918.
Butt, William Horace, Chapel Hill.
A.B., 1920.
Caldwell, Daniel Greenlee, Jr., Concord.
Camp, Cordelia, Rutherfordton.
A.B. in Education, 1920.
Cansler, Ora Carr, Newton.
A.B., 1918, N. C. College for Women.
Cardwell, Ethel Parmelee, Wilmington.
Graduate 1895, N. C. College for Women.
Carmichael, William Donald, Jr., Durham.
Carson, Robert E. Lee, Bethel.

Carter, Edith Elizabeth, Dade City, Fla.
Carter, Emerson Leroy, Hickory.
Cates, Clyde Lucius, Chapel Hill.
A.B., 1912.

Cato, Alma Odeska, Gastonia.
Caviness, Myrtle, Grifton.
A.B., 1918, Greensboro College for Women.

Chapin, Ethel May, Misenheimer.
Chappell, Harry Vaughn, Belvidere.
Christman, Eva Lillian, Burlington.
A.B., 1914, Lenoir College.

Clark, Carrie Lee, Roper.
Clark, Wilma Virginia, Roper.
Claytor, Robert Hume, Hillsboro.
A.B., 1911.

Cloud, Melinnie Thelma, Ivor.
A.B., 1920, Guilford College.

Cobb, Lucy Maria, Thomasville.
Cochran, Frederick Cline, Charlotte.
Cole, Stephen Ruffin, Chapel Hill.
Coltrane, Eugene Jarvis, Roanoke Rapids.
A.B., 1906, Guilford College.

Coltrane, Mrs. Eugene Jarvis. Roanoke Rapids.
A.B., 1907, Guilford College.

Cooper, Lenox Gore, Wilmington.
Costner, Walter Vance, Lincolnton.
Covington, William Braxton, Laurel Hill.
A.B., 1914, Trinity College.

Cox, Alice, Jonesboro.
Crayton, Joseph Eugene, Jr., Charlotte.
Crews, Charlotte Crenshaw, Danville, Va.
Critz, Mrs. Esther Horn, Mocksville.
B.P., 1914, N. C. College for Women.

Cross, Cathryne, Gatesville.
Crowell, Elizabeth, Newell.
Grad. 1905, N. C. College for Women.

Cumpiano, Ricardo Humberto, San German, P. R.
Daniels, Jonathan Worth, Washington, D. C.
Davenport, Florine Anne, Columbia.
Davis, James Blaine, Chapel Hill.
A.B., 1916, Wake Forest College.

Dawson, Fannie Pearle, Elon College.
A.B., 1918, Elon College.

Dawson, Myrtle Artelia, Elon College.
A.B., 1918, Elon College.
DeFord, Cynthia Raie, Richlands.
DeShazo, Benjamin Willard, Selma.
Deitz, Robert Odus, Statesville.
Denham, Adeline, Chapel Hill.
Denny, Hazel Coble, Greensboro.
A.B., 1915, Greensboro College for Women.
Dew, Lynne Bernice, Alachna, Fla.
A.B., 1914, Flora Macdonald College.
Dew, Zelle, Hasty.
Dickens, Wade Hampton, Enfield.
Dimmick, Graham Bennett, Sanford.
Doub, Belle Bryan, Rocky Mount.
B.L., 1910, Flora Macdonald College.
Doughton, J. Horton, Laurel Springs.
Duncan, Elliott Florence, Mayodan.
A.B., 1918.
Duncan, Joseph Lon, Clayton.
Dunlap, Ina Azalene, Bonlee.
Dupree, Benjamin Owens, Plymouth.
Eagle, Watt Weems, Statesville.
A.B., 1918.
Early, Ruth Frances, Louisburg.
A.B., 1920, Trinity College.
Edgerton, Marie Belle, Oak Ridge.
Edgerton, M. Thomas, Oak Ridge.
L.I., 1885, George Peabody College for Teachers.
Edwards, Hattie Nora, Mars Hill.
Eldridge, Harvey Allen, Bentonville.
Eldridge, James, Chapel Hill.
A.B., 1914.
Eldridge, John Grady, Bentonville.
A.B., 1917.
Eller, John DeWalden, Winston-Salem.
Ellerbe, Mary Frances, Roberdel.
A.B., 1917, Louisburg College.
Epstein, Leonard, Goldsboro.
Evans, Nettie Worrell, Murfreesboro.
Farmer, Doretha, Elm City.
Fesperman, Gideon Van Poole, East Spencer.
Finley, Grace Kathleen, Marion.
Fleetwood, Hannah Mae, Hertford.
Foote, William Feimster, Statesville.

Fountain, Susan Mary, Tarboro.
B.E., 1917, N. C. College for Women.
Franklin, Burnie DeWitt, Pyatte.
Fulcher, Manly, Atlantic.
Fuller, Manley Kearns, Whiteville.
Gattis, Lillian Foushee, Chapel Hill.
Gibson, Thelma, Laurinburg.
Goforth, Thelma, Nealsville.
Goldsmith, Ruth Alison, Southern Pines.
Goodwin, Miriam Fuller, Morganton.
Grady, Edgar Norwood, Seven Springs.
Graham, Hector, Laurinburg.
Greenlaw, Dorothy Durland, Chapel Hill.
Greenlee, Mary Margaret, Marion.
Gregory, Lee Overman, Salisbury.
Grier, Ellie Pauline, Matthews.
B.L., 1901, Elizabeth College.
Griffin, Octavus, Bailey.
Griffith, Robert Henry, Charlotte.
Grissett, Felix Alexander, Collettsville.
Grissom, Lawrence, Greensboro.
A.B., 1918, Guilford College.
Groves, Julia Wharton, Salisbury.
B.L., 1911, Flora Macdonald College.
Hagood, William Ward, Jr., Charlotte.
Hair, Joseph Eugene, Lena.
Hales, Frances, Kenly.
Hampton, Belle, Chapel Hill.
Grad., 1907, N. C. College for Women.
Hampton, Lelia, Chapel Hill.
Grad., 1903, N. C. College for Women.
Hancock, Robert Kelly, Jackson.
A.B., 1915, Elon College.
Harbison, Mrs. Ernest Jones, Morganton.
Harden, Robert Norman, Commerce, Ga.
Harper, Marvin Dixon, La Grange.
Harris, Grover Ben, Embro.
Harward, Lessie Lee, Durham.
A.B., 1918, Trinity College.
Hathcock, James Shoffner, Norwood.
B.S., 1919, N. C. State College of Agric. and Eng'g.
Heffner, Hubert Crouzé, Maiden.
Heinsberger, Margaret Stuart, Wilmington.

Helms, Henry Arthur, Indian Trail.
A.B., 1920, Wake Forest College.

Henderson, Grace, Monroe.
A.B., 1919, Flora Macdonald College.

Herring, Mary Ellen, Clinton.
Herring, Mary V., Mt. Airy.
Herring, Paul Dominic, Clinton.
Herron, Fred Julian, Skyland.
Hettleman, Philip, Goldsboro.
Hinshaw, Ira G., Ashboro.
A.B., 1918, Guilford College.

Hinson, Thera Earl, Monroe.
Hodgin, David Reid, Sanford.
Hogan, Eernest Glen, Chapel Hill.
A.B., 1916.

Hogan, Kenneth Page, Winston-Salem.
Holbrook, John McRaven, Huntersville.
A.B., 1917.

Holmes, John Albert, Raleigh.
A.B., 1914; A.M., 1917.

Holmes, Ralph Wendell, Graham.
A.B., 1914.

Holt, Edwin Michael, Duke.
Holton, Florence Elizabeth, Yadkinville.
A.B., 1916, Trinity College.

Hooker, Edgar Frank, Kinston.
Horn, Ivie Louis, Mocksville.
Hosea, William, Goldsboro.
Hoyle, Columbus Alonzo, Fallston.
A.B., 1920.

Huggins, James Dwyer, Boiling Springs.
A.B., 1903, Catawba College.

Hunter, Rufus Avera, Raleigh.
Husketh, S. Junius, Bethel.
B.A., 1907, Wake Forest College.

Hussey, William Wade, Ashboro.
Hutchins, John Manning, Winston-Salem.
Hutchison, Connor Rankin, Charlotte.
Idol, Eugene Donald, Pleasant Garden.
B.A., 1914, Park College.

Irvin, Lucile Violet, Shelby.
Ives, Bessie, Bayboro.
Grad. 1908, N. C. College for Women.

Jeffcoat, Cora Pearle, Burlington.

Jenkins, Edgar Bryan, Nashville.
A.B., 1920.

Jenkins, Sadie Franklin, Nashville.
Jenkins, Samuel Gatlin, Tarboro.
Jennings, Earl DeWitt, Charlotte.
Jernigan, Herman, Benson.
A.B., 1916.

Jobe, Levi Haywood, Mebane.
A.B., 1918.

Johnson, Anna Claire, Ayden.
Johnson, Emmett Carlton, Cedar Creek.
Johnson, Elliott Wesley, Kipling.
Johnson, Joseph Thurman, Durham.
Johnson, Mary Lily, Garland.
B.L., 1918, Flora Macdonald College.

Johnson, Ruth, Cardenas.
Ph.B., 1916, Elon College.

Johnson, Sallie Mae, Delway.
Johnston, Ila Louise, Asheville.
Jones, Aleph Benton, Belhaven.
Keever, James Woodfin, Hickory.
Keith, Judson Ellis, North Side.
Kelly, Herbert Thomas, Fayetteville.
Kendrick, Haywood Benjamin, Cherryville.
Kennedy, Mrs. Virginia Darnell, Washington.
B.A., 1907, Louisburg College.

Kirkman, William Robert, Greensboro.
A.B., 1920.

Kittrell, Mary Ellen, Farmville.
Knight, Ben Halsey, Roper.
Knott, Betty Frances, Oxford.
B.S., 1919, Oxford College.

Koonce, Alexander Hamilton, Chapel Hill.
A.B., 1893.

Koontz, Rufus Guyn, Mocksville.
Lackey, Lillie Susanna, Fallston.
Lassiter, Alma J., Mechanic.
A.B., 1915, Guilford College.

Lassiter, James Horace, Rich Square.
A.B., 1920.

Latshaw, Harry Franklin, Chapel Hill.
A.B. in Education, 1920.

Latshaw, Sylvia Louise, Chapel Hill.
A.B. in Education, 1920.

Laughinghouse, Charles O'Hagan, Jr., Greenville.
Lay, Elizabeth Atkinson, Beaufort.
A.B., 1919.
Ledford, Robert Newton, Hot Springs.
Lee, Charles Gaston, Jr., Asheville.
Lentz, Ada Lillian, Gold Hill.
B.S., 1914, N. C. College for Women.
Liipfert, Benjamin Bailey, Winston-Salem.
Lindsay, Mattie Bright, Lilesville.
A.B., 1914, Limestone College.
Lineberger, Archibald Caleb, Jr., Belmont.
Linker, Joe Burton, Salisbury.
A.B., 1918; A.M., 1920.
Lohr, Burgin Edison, Lincolnton.
Love, Claude Lorraine, Murphy.
A.B., 1917, Young Harris College.
Lowe, Frank Robbins, Winston-Salem.
Lynn, Clabe Webster, Raleigh.
Lynn, Jerome Worth, Raleigh.
McArn, May, Laurinburg.
MacArthur, Mattie R., Parkton.
B.S., 1916, N. C. College for Women.
McBane, Vera Joy, Graham.
McCormick, Dugald Stuart, Manchester.
A.B., 1914, Davidson College; M.A., 1917, University of Virginia.
McCracken, Elizabeth Anne, Fairview.
McEwen, Joe Levy, Charlotte.
McFall, Myra Evelyn, Hickory.
A.B., 1917, Lenoir College.
McGoogan, Janie McMillan, Rennert.
A.B., 1919, Flora Macdonald College.
McIntyre, Marjorie, Blenheim, S. C.
McKay, Eunice Stacy, Dunn.
B.L., 1901, Flora Macdonald College.
McKnight, Thomas Mortimer, Mooresville.
McLean, Joseph Altira, Gibsonville.
McLeod, Margaret, Vass.
B.L., 1918, Flora Macdonald College.
McMullan, William Oscar, Elizabeth City.
Mann, George Weaver, Chapel Hill.
A.B., 1920.
Markham, Ione Lewith, Durham.
Martin, Leo DeWitte, Suffolk, Va.
A.B., 1919, Elon College.

Martin, Oscar Eugene, East Bend.
Massey, William Joseph, Jr., Princeton.
Matthews, William Edwin, Charlotte.
Mauney, Janie Athlene, New London.
Menzies, Henry Harding, Hickory.
Michaels, Matilda Osborne, Durham.
A.B., 1910, Trinity College.

Miller, Chloe Zeolia, Hickory.
A.B., 1917, Lenoir College.

Miller, James Bennet, China Grove.
Millsaps, Vera Euanna, Statesville.
B.S., 1915, N. C. College for Women.

Milton, Carl Yeomans, Albemarle.
M.A., 1920, Wake Forest College.

Minnish, Maude Pennell, Lenoir.
Mizelle, Hazel Latham, Robersonville.
Mobley, Nathan, Charlotte.
A.B., 1920.

Mock, Henry Bascom, Pfafftown.
A.B., 1917.

Monroe, Alberta, Biscoe.
B.P., 1916, N. C. College for Women.

Montgomery, Julia Lilly, Raleigh.
Moore, Anna Culler, Rural Hall.
Moore, James Samuel, Bethel.
A.B., 1920.

Moore, Mrs. Magnolia Arsena, Bethel.
Moore, Thomas Owen, New Bern.
Morgan, Mamie Anice, Fairview.
A.B., 1915, N. C. College for Women.

Moseley, Charles Andrew, Greensboro.
B.A., 1917, Wake Forest College.

Moser, Artus Monroe, Swannanoa.
Moser, John William, Rural Hall.
Mourane, Joseph Harley, Durham.
Murchison, William Cannon, Greensboro.
Naiman, Barnette, Greensboro.
Nelson, Louis Mann, Florence, S. C.
Newcomb, Andrew Purefoy, Henderson.
Newton, Effie Johnson, Hope Mills.
B.E., 1914, N. C. College for Women.

Newton, Giles Yeomans, Gibson.
A.B., 1916, Trinity College.

Nichols, Charles Leslie, Brevard.
Nichols, Lee Burns, Sparta.
A.B., 1920, Davidson College.

Noble, Marcus C. S., Jr., Chapel Hill.
Norton, John William Roy, Laurel Hill.
A.B., 1920, Trinity College.

O'Brien, Hazel Evans, Jonesboro.
O'Daniel, Narva Ann, Chapel Hill.
B.P., 1916, N. C. College for Women.

O'Neal, Harry Edward, Scranton.
Ogburn, Roger Wendell, Kernersville.
Ormond, Edna Earle, Hookerton.
Owens, Adolphus Bingham, Charlotte.
Owens, Henry Grady, High Point.
Paris, Mrs. James Yancey, Henderson.
Parker, Frederick, Pantego.
L.I., 1899, College of William and Mary.

Parker, George Farrar, Asheville.
A.B., 1917.

Parker, John Merrell, Chapel Hill.
A.B., 1916.

Patterson, Fred Marion, Concord.
Ph.G., 1920.

Peace, Mrs. William Leak, Oxford.
Peacock, Frank Lee, Fremont.
Pearce, Janie Elizabeth, Franklinton.
Pearson, Theresa Annie, Fairmont.
Pence, James Jerome, Rockingham.
A.B., 1920.

Pendergraph, Pearl, Chapel Hill.
Perry, Frank Leslie, Louisburg.
Perry, Thomas Gray, Wilkesboro.
A.B., 1916, Guilford College.

Petree, Edith Elizabeth, Greensboro.
A.B., 1915, N. C. College for Women.

Pickard, Minna Thelma, Chapel Hill.
A.B., 1917.

Pickard, Nell, Chapel Hill.
Pickens, Wiley Miller, Salisbury.
A.B., 1916, Trinity College.

Pickett, Elizabeth Mae, Madison.
Pickett, Howell Grady, Madison.
Pierce, Allie Ann, Colerain.
A.B., 1915, Meredith College.

Pigg, Clara Mozella, Madison.
A.B., 1907, Meredith College.
Poindexter, Crawford Charles, Franklin.
Pollock, Philip Basil, Trenton.
Poore, Mary Emma, Detroit, Mich.
Powell, Thomas Edward, Jr., Warren Plains.
A.B., 1919, Elon College.
Prescott, Marion Butler, Ayden.
Purrington, Philip Parker, Scotland Neck.
Rabe, Annie Davis, Salisbury.
Grad. 1905, N. C. College for Women.
Ragsdale, James Edward, Florence, S. C.
Ramsay, Margaret Beall, Salisbury.
Rand, Cecil Holmes, Garner.
Ranes, Arthur, Raleigh.
B.A., 1908, Wake Forest College.
Rankin, Sara Edna, Gastonia.
A.B., 1913, Queens College.
Raper, Julius Rowan, Jr., Linwood.
Rea, Sue Ethel, Matthews.
B.A., 1919, Agnes Scott College.
Reap, Bess Maude, Albemarle.
Reep, Alfred Roy, Gastonia.
A.B., 1917, Trinity College.
Reid, Dixie, Rutherfordton.
Reisner, Charles Franklin, Salisbury.
Renegar, Harvey Caldwell, Harmony.
Rhyne, Jennings Jefferson, Bessemer City.
A.B., 1919.
Richardson, Jessie Eugenia, Dover.
A.B., 1919, Flora Macdonald College.
Riggins, Hazel McLeod, Matthews.
Robbins, Annie May, Shelby.
Robbins, George Branson, Jamestown.
Robbins, Jesse Manly, Ashboro.
Roberson, Nellie, Chapel Hill.
Roberts, Bennett Watson, Gatesville.
Roberts, Oren Ernest, Biltmore.
Robertson, Edwin Mason, Woodsdale.
Robinson, Annie Irene, Elon College.
Robinson, Caroline Hines, Ivanhoe.
B.P., 1916, N. C. College for Women.
Rogers, William White, Timberlake.
A.B., 1912.

Rogers, Mrs. William White, Timberlake.
Roseman, Milo A. J., Salisbury.
Ross, Daisy, Chapel Hill.
Rountree, Moses, Oxford.
A.B., 1920.

Royall, William Allen, Goldsboro.
Sanders, Wiley Britton, Hancock, Ga.
A.B., 1919, A.M., 1920, Emory University.

Savage, Carl Preston, Rose Hill.
Sawyer, George Lippard, Gastonia.
A.B., 1915, Lenoir College.

Scholl, James Lester, Holly Springs.
Scott, Benajah, Jr., Lucama.
Scott, Dolly Pearl, Lucama.
Setzer, Ethel Katherine, Hickory.
A.B., 1917, Lenoir College.

Shannon, Judson Lingle, Gastonia.
Shepherd, Lillias McDaniel, Raleigh.
Sherrill, Mildred Irene, Newton.
A.B., 1920.

Shine, Claudia Pearsall, Chapel Hill.
Shine, Lou Sullivan, Chapel Hill.
Shoaf, Mary, Mooresville.
B.L., 1913, Mitchell College.

Shore, George Dewey, Yadkinville.
Short, George Asa, Greensboro.
A.B., 1913, Guilford College.

Short, Mrs. George Asa, Greensboro.
A.B., 1914, Guilford College.

Simons, John David, Colerain.
Simpson, Henry Belk, Matthews.
A.B., 1920.

Smith, Charles Henry, Reidsville.
Smith, Margaret, Davidson.
Smith, Nathaniel McNair, Raeford.
Smith, Robert Edwin, Mount Airy.
Smith, Samuel Clement, Chapel Hill.
A.M., 1920.

Smithdeal, Edward Octavius, Advance.
A.B., 1902, Trinity College.

Snoddy, Charles Edison, Mount Airy.
A.B., 1917.

Spencer, Rebert Baxter, Chapel Hill.
Spiegel, Grady, Wilson.

Sprinkle, Thomas Weaver, Reidsville.
A.B., 1916, Trinity College.
Spruill, Mary James, Littleton.
Stanton, Verna, Clio, S. C.
B.L., 1918, Flora Macdonald College.
Stevens, Charles Leary, Shiloh.
Stewart, Charles Davis, Gloucester.
Stewart, Mary Hugh, Laurinburg.
Stine, Glenn Ralph, Newton.
Stout, Wilbur White, Burlington.
Street, Robert Burns, Linville Falls.
A.B., 1910, Berea College; S.T.B., 1914, Harvard University; A.M., 1916, Berea College.
Strowd, William Clarence, Carthage.
A.B., 1916, Trinity College.
Stutts, Dewitt Talmage, Carthage.
A.B., 1915, Trinity College.
Sumner, Laura, Franklinville.
A.B., 1918, N. C. College for Women.
Sykes, Paul Scarborough, Woodland.
A.B., 1917, Wake Forest College.
Taylor, Edna Louise, Goldsboro.
A.B., 1917, Trinity College.
Taylor, Haywood Maurice, Tarboro.
S.B., 1920.
Taylor, Walter John, Rutherfordton.
Thomas, Jacob Elwood Leon, Rocky Mount.
Thompson, Earle Hinson, Warsaw.
Thompson, George West, Goldsboro.
Thornton, Thomas Albert, Jr., Fayetteville.
Thorp, Isaac Davenport, Rocky Mount.
Tolbert, Elizabeth Hettie, Greenwood, S. C.
A.B., 1914, Erskine College.
Toy, Calvert Rogers, Chapel Hill.
A.B., 1920.
Tucker, Francis Marion, Woodruff, S. C.
Uzzell, Lula Valeria, Chapel Hill.
Vickers, Winston Gordon, Durham.
Wallace, Samuel Gordon, Statesville.
Warrick, Ed., Sioux.
A.B., 1918.
Warrick, Jess D., Sioux.
Watson, Frank Ingram, Dillsboro.
Weatherly, Carl Holmes, Kernersville.
B.S., 1905, Davidson College.

Weathers, Curtis Linville, Bunn.
A.B., 1920, Wake Forest College.
Webster, Maude Martha, Stokesdale.
Wells, Lydia, Elm City.
Wells, Rosa Lee, Elm City.
Westbrook, Almond Percy, Dunn.
Whitener, Russell Winfield, Hickory.
A.B., 1917, Catawba College.
Wiley, Laura Linn, Salisbury.
B.E., 1918, N. C. College for Women.
Wilkins, Adger Bright, Linden.
Williams, Beulah Inez, Rowland.
Williams, Claude James, Concord.
Williams, Calvin Ursinus, Poplar Branch.
Williams, Sue Vernon, Asheville.
A.B., 1919, Randolph Macon Woman's College.
Williamson, James Saunders, Burlington.
Wilson, Carrie Brunetta, Madison.
Wilson, Ossie Williams, Bald Creek.
Winn, Lily, Mebane.
Womble, David Jackson, Cary.
Woodard, Warren Vaughan, Wilson.
Wood, Mary Sue, Woodsdale.
B.S., 1919, Oxford College.
Wright, Nathaniel, Windsor.
A.B., 1915.
Wright, N. E., Star.
B.A., 1913, Wake Forest College.
Wright, Orpheus Evans, Winston-Salem.
Young, Ina Vivian, East Durham.
A.B., 1917, Trinity College.
Young, Marvin Pleasant, Carrboro.
Younts, William Ernest, Greensboro.
B.S., 1908, Guilford College.

Normal and Preparatory Students

(*Orange County Summer School Attendants.)

Abernethy, Lucy, Elkin.
Ackerman, Mrs. Bessie Compton, Walterboro, S. C.
Albright, Mrs. Nancy Duffy, Liberty.
Alexander, Lutie Elizabeth, Huntersvile.
Allen, Bettie Sophronia, Roxobel.
Allen, Ida Mae, Littleton.
Allen, Katherine Dalton, Littleton.

Alligood, Brownie Dare,	Pine Town.
Allison, Jarvis Hardin,	Waynesville.
Allred, Nettie Kapp,	Mount Airy.
Alston, Bessie Lee,	Henderson.
*Anderson, Mrs. Arrington,	Speed.
Anderson, Elmo Dennis,	Tarboro.
Andrews, Agnes Demarius,	Chapel Hill.
Andrews, Dora Rhett,	Chapel Hill.
*Andrews, Rena Elizabeth,	Durham, R. 5.
Armstrong, Ethel McMullen,	Fort Mill, S. C.
Ashley, Jessamine Dixon,	Fairmont.
Atkinson, Mrs. Ruth Wysor,	Tampa, Fla.
Bain, Sarah Myrtle,	Roanoke Rapids.
*Baldwin, Alma,	Cerro Gordo.
Ball, Minnie M.,	Bahama.
Barbee, Nettie Moore,	Durham.
*Barnette, Bertha Flora,	Cornelius.
Barnette, Minerva Lee,	Pineville.
Barnhardt, Mrs. Agnes Barringer,	Hallsboro.
Barnhardt, Bess,	Hallsboro.
Barringer, John Coyte,	Newton.
Barringer, Lena Mae,	Mount Pleasant.
*Bass, Mary Florence,	Garysburg.
Battle, Nancy Ashe,	Chapel Hill.
Baynor, Maude Henson,	Belhaven.
Beckham, Margaret Othello,	Hiddenite.
Beckwith, Mary Speed,	Lake Landing.
Bell, Arthur Poinsette,	Rosman.
Bell, Mrs. Clerrie Whitmore,	Rosman.
Bennett, Mrs. John Grady,	Clinton.
Bennett, Mary Elizabeth,	Wingate.
Benton, Pat,	Monroe.
Best, Claude William,	Chapel Hill.
Best, Sallie Rebecca,	Goldsboro.
Black, Edna Lee,	Mount Holly.
Black, Lee,	Piney Creek.
Blackwood, Mattie Emeline,	University.
Blades, James Evans,	Elizabeth City.
*Blalock, Sadie Byrd,	Hurdle Mills.
Blanton, Rena Lillian,	Mooresboro.
Bond, Sallie James,	Windsor.
Bone, Minnie Leigh,	Nashville.
Boney, Paisley, Jr.,	Goldsboro.
*Bonner, Gaynelle,	Bonnerton.
Bonner, Winifred Ella,	Bonnerton.

Boothe, Elsie,	Chapel Hill.
Bowden, Mrs. Willie Colon,	Maxton.
Bowers, Martha Elizabeth,	Littleton.
Braddy, Kanella Josephine,	Council.
Bradsher, Eugenia,	Durham.
Brawley, Mary Maxine,	Gastonia.
Bray, Malrie Lewis,	Crutchfield.
*Breeze, Luna V.,	Timberlake.
Breeze, Vesta Virginia,	Hurdle Mills.
Bridger, Mrs. Thomas Hines,	Lewiston.
Bridgman, Annie Elizabeth,	Lake Landing.
Bridgman, Mary Eleanor,	Lake Landing.
Britt, Martha H.,	Conetoe.
Brock, Mrs. Josie White,	Wilmington.
Brooks, Jessine,	Hendersonville.
Brown, Anne Estelle,	Hillsboro.
Brown, Alice Lee,	Chapel Hill.
Brown, Mildred Tullia,	Salisbury.
Brown, Viola Elizabeth,	Duck Creek.
Brown, Winnie Bowden,	Duck Creek.
Browning, Nell Cain,	Hillsboro.
Bruton, Mary Jane,	Carthage.
Bryan, Jean,	Chapel Hill.
Bryant, Carrie Wright,	Clinton.
Bryant, Matilda Parke,	Durham.
Bryant, Nora Alma,	Pilot Mountain.
Bryant, Nereus Fatterson,	Boonville.
Bulla, Mary Allen,	Randleman.
*Bullock, Leonda,	Atlantic.
Bumgardner, Pearl Blanche,	Wilkesboro.
Burch, Pauline Sallie,	Chapel Hill.
Burke, Grace,	Goldston.
Butler, Helen Carolyn,	Guide.
Butler, Letha Penelope,	Tabor.
Butt, Mrs. Maggie,	Chapel Hill.
Cain, Ivetta,	Morganton.
Cameron, Lula Virginia,	Hope Mills.
Candler, Mrs. Mamie Tuck,	Asheville.
Carawan, Lizzie Maye,	Roper.
Carter, Fronie,	Hoffman.
Carter, Jasper Capers,	Dade City, Fla.
Carter, Lindley Taber,	Dade City, Fla.
Carter, Ruth Emma,	Henderson.
Cates, Claudia Mae,	Chapel Hill.
Cavenaugh, Anna,	Wilmington.

Chadwick, Lena Rivers,	Gloucester.
Champion, Vertie Gertrude,	Lawndale.
Chandler, Laura Beatrice,	Maxton.
Chapman, Norma Allie,	Quebec.
Chauncey, Mary Elizabeth,	Belhaven.
Cheek, Alice,	Henderson.
*Cheek, Ava Lee,	Saxapahaw.
Cheek, Evie Lee,	Graham.
Chesnutt, Katie Lee,	Rocky Point.
Clark, Alice M.,	Knoxville, Tenn.
Clark, Josephine,	Candor.
Clark, Margaret Florence,	Jackson Springs.
Clayton, Anna Eliza,	Albemarle.
*Claytor, David Alphonso,	Hillsboro.
Clontz, Mrs. Ralph Clayton,	Cornelius.
Cobb, Maude Bryan,	Fremont.
Coble, Irma Kathleen,	Liberty.
Cole, Cora Belle,	White Oak.
Cole, Rosa Vella,	Hillsboro.
Coley, Isabelle,	Northside.
*Collins, Estelle Marie,	Ayden.
Collins, Veva Merle,	Roper.
Cook, Gertrude,	Winston-Salem.
Cooke, Mrs. Mary Wood,	Elizabeth City.
Cooper, Effie Laura,	China Grove.
Cooper, Mary Sophia,	China Grove.
Cothran, Allie,	Hamlet.
Cothran, Mary Elizabeth,	Hamlet.
Couch, Mabel Elizabeth,	Chapel Hill.
Councill, Margaret Elizabeth,	Salisbury.
Covington, Sadie Allison,	Red Springs.
Cox, Effie Elizabeth,	Mount Gilead.
Cox, Lela Josephine,	Mount Pleasant.
Cox, Mary Lillie,	Princeton.
Cox, Zora,	Mount Pleasant.
Cozart, Mary Elizabeth,	Stem.
Crawford, Ava Belle,	Hillsboro.
Creel, Kathleen,	Dunn.
Crews, Roberta Thomas,	Danville, Va.
Cromartie, Lottie,	Elizabethtown.
Croom, Louise Leah,	Magnolia.
Crowder, Aline,	Peachland.
Crowell, Elizabeth,	Newell.
*Currie, Flora Belle,	Raeford.
Currie, Jennie Newlin,	Raeford.

Cutchin, Etta,	Chapel Hill.
*Cutchin, Fannie Grace.	Chapel Hill.
Cuthrell, Sallie,	Aurora.
Dalton, Lizzie Pearson,	Concord.
Daughtry, Eva,	Faison.
*Daughtry, Velva,	Faison.
Davis, Johnnie Lou,	Albemarle.
Davis, Laura Etta,	Progress.
Davis, Mrs. Mattie,	Washington.
DeBerry, Virgie,	Wadeville.
DeFord, Eugenia Robert,	Richlands.
Deal, Margaret Locke,	Statesville.
Dearman, Claudius Hursell,	Harmony.
Dellinger, Lena Dora,	Lincolnton.
Dickerson, Mrs. James Howard,	Rougemont.
Dillon, Lillian Marie,	Columbia.
Donnell, Fannie Sue,	Greensboro.
Dorton, Ferrie,	Spencer.
Dove, Mary Lavenia,	Cornelius.
Downs, Vertie Roxana,	Casar.
Drake, Ethel Cornelia,	Biscoe.
Draughon, Edgar S. W.,	Fayetteville.
Dry, James Robert,	Albemarle.
Dula, Mrs. Eliza Williams,	Lenoir.
Duncan, Sally Ramsey,	Beaufort.
Dunn, Nell,	Ahoskie.
Durham, Mildred Elizabeth,	Hillsboro.
Edwards, Ada,	Mars Hill.
*Edwards, Alice Adelaide,	Morehead City.
*Edwards, Athleene Alice,	Grifton.
Edwards, Fushia Elizabeth,	Mars Hill.
Edwards, Lillie Pearl,	Rocky Mount.
Edwards, Mary Wooten,	New Bern.
Eldridge, Mrs. John Grady,	Bentonville.
Elliott, India Marion,	Rich Square.
Essie, Abdo Frank,	Chapel Hill.
Etheridge, Amanda,	Manteo.
Evans, Bonnybel,	Manteo.
Faircloth, Ada May,	Stedman.
Farrior, Hester Anne,	Warsaw.
Faucette, Maude Ray,	Efland.
Ferrell, Mrs. Luna Wilson,	Rougemont.
Fields, John William,	Laurinburg.
Fitzpatrick, Annie May,	Alcoma. Va.
Flake, Mary Rachel,	Wadesboro.

Fleming, Armeda Irene,	Greenville.
Floyd, Dinabel Adelia,	Fairmont.
Ford, Annie Lena,	Four Oaks.
Fountain, Bracey Frederick,	Tarboro.
Fountain, Lula Agnes,	Tarboro.
Foust, Mrs. Mamie Rogers,	Graham.
Franklin, Nelle,	Jefferson City, Tenn.
Franks, Mrs. Rella Jean Montgomery,	Rome, Ga.
Freeman, Bess B.,	Cliffside.
Freeman, Bertha Florence,	Vass.
*Fulton, Pauline,	Belew Creek.
Fuquay, Mrs. Daniel Long,	Chapel Hill.
Garlick, Edna Elizabeth,	Henderson.
Garlick, Margaret Hildreth,	Wilmington.
Gaston, Lucy,	Lowel.
Gattis, Annie,	Chapel Hill.
Geddie, Hettie Viola,	Fayetteville.
Gilbert, Lulu Maie,	Clinton.
Glenn, Effie Gladys,	Rougemont.
*Golden, Stacy Earl,	Atlantic.
Gough, John Anderson,	Winston-Salem.
Grantham, Victor Hugo,	Bentonville.
Gray, Mary Lee,	Kinston.
Green, Fannie Irene,	Durham.
Gregg, Mrs. Evander McIver,	Wilmington.
Gregg, Valeria Meginney,	Wilmington.
Griffin, Jessie,	Cerro Gordo.
Griffin, Lena,	Goldsboro.
Griffin, Leon Theophilus,	Macclesfield.
Griffin, Mildred,	Cerro Gordo.
Grigg, Flossie,	Sheby.
Griggs, Blanche,	Currituck.
Grimsley, Rachael Murrill,	Jacksonville.
Guffey, Sue,	Bessemer City.
Guthrie, Bessie Ava,	Graham.
Guy, Rosa Clarke,	Eufola.
Gwaltney, Elizabeth,	Hiddenite.
Gwynn, Permelia Cobb,	Yanceyville.
Hall, Ella Umstead,	Stem.
Hall, Lela Autry,	Hayne.
Hall, Mary Anne,	Milton.
Hall, Mary Hargrave,	Wilmington.
Hamilton, John Wallace,	Atlantic.
Hampton, William Walker,	Chapel Hill.
Hancock, Corinne Wesley,	Jackson.

Hancock, Ernest Vernon,	Scotland Neck.
Hancock, Lucetta Ray,	Chapel Hill.
Hanrahan, George Byron,	Kinston.
Hare, Ruth Vivian,	Apex.
Hargrove, Homer,	Dunn.
Hargrove, Mrs. Jessie May,	Dunn.
Harrell, Lotte Frances,	Marshville.
Harrell, Rosa Dare,	Moyock.
Harrill, Annie Belle,	Lawndale.
Harrill, Essie Pearl,	Shelby.
Harris, Maud Lee,	Oakboro.
Harris, Pauline Nash,	New London.
Harris, Urtie Clifford,	Macon.
Harrison, Mrs. Adelia L.,	Raleigh.
Hart, Janie Lee,	Woodleaf.
*Hart, Mary Alice,	Oxford.
Hartley, Maude Louise,	Lenoir.
Harward, Ila Clementina,	Albemarle.
Hatcher, Ethel,	Mount Olive.
Hawkins, Annie Rebekah,	Brown Summit.
Hawkins, Margaret Byron,	Fredericksburg, Va
Heath, John W.,	Harmony.
Hedrick, Laura,	Taylorsville.
Heffner, Reid Russel,	Maiden.
Hefner, Charles Edward,	Newton.
Hendren, Mabel Bertha,	Wilkesboro.
Herndon, Agnes Lawing,	Lincolnton.
Herrick, Howard Jay, Jr.,	Williamston.
*Herring, Atwood,	Delway.
Herring, Annie Wells,	Wilmington.
*Herring, Myrl,	Delway.
High, Vermell,	Wilson.
*Highsmith, Laura Ava,	Roper.
*Highsmith, Ruby Lee,	Roper.
*Hine, Ollie Regina,	Old Town.
Hinman, Albert Harold,	Miami, Fla.
Hinton, Katharine,	Elizabeth City.
Hobbs, Birdie,	Atlanta, Ga.
Hogan, Alice Davis,	Chapel Hill.
Hoke, Mrs. Robert Lee,	Pinehurst.
Hoke, Robert Lee,	Pinehurst.
Holdford, Anne Virginia,	Weldon.
Holeman, Annie Louise,	Timberlake.
Holland, Pauline,	Salemburg.
*Hollingsworth, Marion,	Newton.

Hollomon, Hannah Ellen,	Woodland.
Hollowell, Minnie Ada,	Ransomville.
Honeycutt, Mrs. Naomie,	Oxford.
Hoover, Annie Margarett,	Lincolnton.
Horton, Mary Thomas,	Durham.
*Hough, Phoebe,	Walkertown.
Howard, Ollie Juanita,	Efland.
Howard, Reba Mae,	Denver.
Hoyle, Mrs. Olive,	Cornelius.
Hunt, Lucille Elizabeth,	Oxford.
Isley, Callie Eunice,	Burlington.
Isley, Mary Lorraine,	Burlington.
*Jackson, Eva,	Dunn.
Jackson, Frances Marie,	Morehead City.
Jackson, Olivia,	Cooper.
Jackson, Venie Sherwood,	Cooper.
Jackson, Vi Tera,	Orange.
*James, Berta Elsie,	Swepsonville.
*James, Verna,	Star.
Jarman, Sophia Inez,	Burlington.
Jenkins, Roy Dennis,	Rosemary.
Jerome, Gladys,	Winfall.
Jetton, Mabel Gerding,	Shelby.
Johnson, Bertha C.,	Grifton.
Johnson, Bessie Frank,	Delway.
Johnson, Etta Maie,	Misenheimer.
Johnson, Kate Burr,	Raleigh.
Johnson, Mary Jane,	White Oak.
Johnson, May Vivian,	Raleigh.
Johnson, Nettie Folger,	Sanford.
Johnston, Christine,	Rowland.
Johnston, Lucile Caldwell,	Charlotte.
*Jolley, Mabel Glennie,	Ayden.
Jones, Annie Clara,	Wingate.
*Jones, Alma Hawkins,	Clinton.
*Jones, Valeria Jane,	Angier.
Jordan, Esther,	Rutherfordton.
Jordan, Elise McDuffie,	Wilmington.
*Joslin, Muriel Imogene,	Canton.
Joyner, Laura Anna,	LaGrange.
Kehoe, Emma Louise,	New Bern.
Kendrick, Lillian Alice,	Fallston.
Kinlaw, Lou Jane,	Fayetteville.
Kinney, Julia Esther,	High Rock.
Kiser, Lorena Barbara,	Bessemer City.

Kiser, Leona Mary,	Bessemer City.
Kittrell, Olive Valeria,	Grimesland.
Knott, Pearl,	Oxford.
Kornegay, Kate Jennette,	Mount Olive.
Lamb, Ruth Mary,	Belvidere.
Lansdell, Nancy Elizabeth,	Semora.
Lassiter, Luna Gladys,	Smithfield.
Lathrop, Lillian,	Savannah, Ga.
Lattimore, Mary Edna,	Shelby.
Laughlin, Mrs. Helen Mangum,	Selma.
*Laws, Lyda Mae,	Rougemont.
Lay, Ellen Booth,	Beaufort.
Leach, Lucy Ianna,	Littleton.
Leavitt, Leona Mable,	Atlanta, Ga.
Ledbetter, Hazel Mebane,	Chapel Hill.
*Lee, Lettie,	Dunn.
Lee, Mamie Mozel,	Dunn.
Lee, Thelma Ruth,	Thomasville.
*Lefferts, Aleeze Aycock,	Gloucester.
Lentz, Lucille Pearle,	Spencer.
Leonard, Lena,	Lexington.
Lewallen, Beatrice,	Ashboro.
*Lewis, Venia,	Saxapahaw.
Lindley, Ethel Lula,	Siler City.
Lineberger, Marie Eugenia,	Lincolnton.
Lineberry, Mary Frances,	Coleraine.
Liner, Rebecca Blanche,	Hillsboro.
Linn, Marie Lucile,	Salisbury.
Linton, Mrs. Mary Overman,	Salisbury.
Little, Marie,	Denver.
Lloyd, Addie Randolph,	Bethel.
Lloyd, Elmer Vernon,	Chapel Hill.
*Lloyd, Lina Parrish,	Chapel Hill.
Long, Edna Ione,	Seaboard.
Long, Grace Elizabeth,	Mebane.
Long, Hubert Preston,	Chapel Hill.
Long, Jesse Melvin,	Clarendon.
Long, Naomi Ella,	Chapel Hill.
Long, Olga Dare,	Mebane.
Long, Raynor Williams,	Seaboard.
Long, William Samuel,	Chapel Hill.
Lowder, Lelia Vance,	Norwood.
Lowe, Mary Ella,	Stanley.
*Loy, Alice Lee,	Graham.
Luck, Anne Clare,	Rutherford College.

McBroom, Loretta Bessie,	Hillsboro.
McCallum, Rozella Jane,	Carthage.
McCann, Verna,	Traphill.
*McCauley, Myra Maude,	Durham.
McClaran, Annette,	Jackson.
McClaran, Jane,	Jackson.
McCracken, Frances Willard,	Guilford College.
McCullock, Robbie Bannerman,	Populi.
McDade, Blanche Marie,	Mebane.
McDonald, Jane Lovedy,	Biscoe.
McGirt, Elizabeth,	Maxton.
McIntosh, Frances Davis,	Denver.
McIntosh, May,	Denver.
McIntyre, Bess Bernice,	Wingate.
McKinnon, Mary,	Wadeville.
McLamb, Lena,	Ingold.
*McLean, Kate Elizabeth,	Whitsett.
McLemore, Elabee,	Rochelle, Ga.
McLennan, Lona Belle,	Durham.
MacMillan, Henrietta,	Parkton.
MacNair, Janet Little,	Winston-Salem.
MacNair, Margaret Elizabeth,	Winston-Salem.
McNeely, Homer Adkin,	Hamlet.
McNees, Hazel,	Kittanning.
McNeill, Mary,	Cameron.
McNelly, Mrs. Genevieve Collier,	Wilmington.
McVey, Josephine Mima,	Burlington.
Macon, Edith Emily,	Climax.
Madry. Dennis Wilbur,	Scotland Neck.
Maness, Lilly Christine,	Biscoe.
Maness, Margaret Myrtle,	Biscoe.
Mangum, Bessie,	Stem.
Mann, Rosa Blanche,	Merry Oaks.
Marley, Margaret Elizabeth,	China Grove.
Marshall, Mrs. Sallie Mott,	Walnut Cove.
Martin, Mrs. Annie Lou,	Fayetteville.
Martin, John Alton,	Fayetteville.
Martin, Roger Byron,	East Bend.
Martin, Virginia Dare,	Salisbury.
Mason, Ettie,	Atlantic.
*Mason, Prudie,	Atlantic.
*Mason, Ruby,	Atlantic.
Matthews, Mrs. Alva Clayton,	Drum Hill.
Mauney, Marie Martha,	Shelby.
*Maxwell, Annie,	Seven Springs.

Maxwell, Myra Roberta,	Seven Springs.
Merrell, Wilson Franklin,	Statesville.
Merritt, Eddy Schmidt,	New Bern.
Merritt, Hattie Bryan,	Chapel Hill.
*Miller, Anabelle,	Rougemont.
Millikin, Mary Ellen,	Enfield.
Mills, Lapsley Barron,	Mooresville.
Monk, Beatrice,	Stoughton, Mass.
Monroe, Eoline,	Sanford.
Monroe, Mamie,	Rockingham.
Montgomery, Lena,	Salisbury.
Moore, Larry Ichabod, Jr.,	New Bern.
Moore, Mamie,	Conetoe.
Moore, Marguerite,	Kelly.
Moore, Mabel Clara,	Saxapahaw.
Morris, Clara Cordelia,	Rutherford College.
Morris, Clara Rebecca,	Union Mills.
*Morris, Lillian,	Atlantic.
Morris, Myrtle,	Atlantic.
Morris, Sarah Frances,	Pinetown.
Morris, Tula Esta,	Farmer.
Moss, Zebulon Vance,	Albemarle.
Moxley, Virginia Rosa,	Sparta.
Mundy, Frankie Janette,	Denver.
Munn, Lula,	Biscoe.
Munn, Lillian Mae,	Ayden.
Nanney, Mae,	Union Mills.
*Nelson, Lela,	Atlantic.
*Nelson, Minnie Lucille,	Atlantic.
Nesbitt, Margaret Elizabeth,	Chapel Hill.
Nesbitt, Teasdale Clark,	Chapel Hill.
Neville, Annie May,	Chapel Hill.
*Newton, Virgie Rebecca,	Nelson, Va.
Nichols, George Glenn,	Sparta.
Nixon, Sallie Lee,	Lincolnton.
Noe, Elizabeth Helen,	Beaufort.
Norwood, Annie,	Chapel Hill.
*Norwood, Sallie Stovall,	Bullock.
O'Daniel, Leonora,	Chapel Hill.
*O'Daniel, Mattie Lee,	Chapel Hill.
*Oliver, Ethel Matilda,	Topnot.
*Oliver, Lucy Carr,	Topnot.
Orr, Gertrude,	Currie.
Osteen, John Luke,	Selica.
Outlaw, Donie,	Seven Springs.

Owen, Naomi,	Clinton.
Oxford, Sara Ophelia,	Atlanta, Ga.
*Page, Inez Harlee,	Durham.
*Page, Paulina,	Autryville.
Parker, Mrs. Frederick,	Pantego.
Parrish, Mrs. Annie Ward,	Rougemont.
*Parrish, Mary Eunice,	Durham.
Parsons, Ola Marguerite,	Stratford.
Patterson, Annie Laurie,	Patterson Springs.
Patterson, Burwell Panthea,	Littleton.
Patton, Iola,	Haw River.
*Pearce, Ruby Eleanor,	Timberlake.
Peele, Erma Burrell,	Aulander.
Peele, Minnie Clyde,	Greensboro.
Pence, Alexine,	Rockingham.
Pendergraph, Bertha Gertrude,	Durham.
Penn, May Belle,	Greensboro.
Penney, Mabel Eulalia,	Raleigh.
Penny, Lyda Leone,	Raleigh.
Perkinson, May Sallie,	Wise.
Perry, Fronie Lillian,	Wingate.
Person, Mary Ruth,	Carthage.
Phelps, Pearl Lawrence,	Hurdle Mills.
Phillips, Carrie Lee,	Trinity.
Phillips, Ernest Nicholas,	Stokes.
Picot, Marietta Blount,	Como.
Pigford, Virginia Faison,	Faison.
Pinnix, Robert Henry,	Greensboro.
Pippin, Mary Belle,	Wakefield.
*Pittard, Bettie Nonie,	Oxford.
Pleasants, Sallie Wilson,	Louisburg.
Pool, Belle,	Clayton.
Pope, Lucile Frances,	Mount Olive.
Pope, Sue Ellen,	Wadesboro.
Preston, Bertha Jane,	Walkertown.
Price, Viola,	Rocky Mount.
Pritchard, Lula,	Ashboro.
Pritchard, Lillian Irene,	Weeksville.
Proctor, Ruth Fannie,	Rocky Mount.
Pruden, Nancy Jenkins,	Windsor.
Pugh, Ima Elizabeth,	Dunn.
Quinerly, Sallie Bett,	Ayden.
Rackley, Fannie Mae,	Magnolia.
Ramsay, Marion Elizabeth,	Salisbury.
Raney, Carrie Belle,	Salisbury.

Rankin, Alice Rachel,	Greensboro.
Rascoe, Nell,	Reidsville.
Rawls, Beulah Belle,	Laurinburg.
Rawls, Mary Geneva,	Laurinburg.
*Ray, Flora Elizabeth,	Hillsboro.
Ray, Mrs. James Clyde,	Hillsboro.
Redfern, Ruth Annie,	Wingate.
Redwine, Katherine Mary,	Monroe.
Reece, Maxine Opal,	Quebec.
Reid, Eliza Caroline,	High Rock.
Reid, Marie Elizabeth,	Rutherfordton.
Reynolds, Helen Kearns,	High Point.
Reynolds, Orin Gentry,	Rockingham.
Rhyne, William Rudy,	Stanley.
Rice, Eleanor Fuller,	Chapel Hill.
Richards, Lucy May,	Dyersburg.
Rigsbee, Nancy Elizabeth,	Durham.
*Ritchie, Rhea Alice,	Richfield.
Robinson, David Edward,	Supply.
Robinson, Edna,	Ivanhoe.
*Robinson, Hopie,	Atlantic.
*Robinson, Sophia,	Atlantic.
Rodwell, Raymond Rhodes,	Warrenton.
Rogers, Mattie Belle,	Fayetteville.
Rollins, Mrs. Lillian Colmar,	Miami, Fla.
Rollins, Lillian Estelle,	Miami, Fla.
Roseman, Forney,	Lincolnton.
*Ross, Irma Sidney,	Edward.
*Rothrock, Carrie Davidson,	Rockwell.
Royster, Hattie LeMay,	Henderson.
Rudisill, Eloise Tululah,	Iron Station.
Russell, Lillian Carolyn,	Hubert.
Russell, Mrs. William Hilliard,	Biscoe.
Saine, Jennie Johnston,	Lincolnton.
Sale, Mrs. Addie Emma,	New Castle.
*Salter, Mayme,	Atlantic.
Sawyer, Julia,	Currituck.
Secrest, Isabel,	Monroe.
Secrest, Mary,	Monroe.
Sherwood, Mary Lyndon,	Randleman.
Shield, Mary Peterson,	Windsor.
Shoulars, Mattie Lillian,	Whitaker.
Siler, Anniewill,	Franklin.
Simmons, Rossie Cornelia,	Jerome.
Simpson, Fannie,	Currituck.

Simpson, Lake,	Gastonia.
*Simpson, Nettie,	Burlington.
Sink, Mary Ila,	Lexington.
Sitterson, Lillie Murden,	Plymouth.
Sitterson, Mary Willo,	Plymouth.
*Sitterson, Nina Louise,	Plymouth.
Skillman, Florence Martha,	Warrenton.
Sledge, Virginia Bascom,	Tarboro.
Sloan, Elizabeth,	Charlotte.
Sloope, Emma Grace,	China Grove.
Sloope, Gladys Lee,	China Grove.
Smith, Clara Dickson,	Barium Springs.
Smith, Ella Elizabeth,	Winterville.
Smith, Elizabeth Julia,	Davidson.
Smith, Eva Mary,	Birmingham, Ala.
Smith, Lois Cromartie,	Barium Springs.
*Smith, Laura Etta,	Liberty.
Smith, Mamie Adelle,	Sellers, S. C.
Smith, Mary Belle,	Rural Hall.
Smith, Mary Lou,	Hallsboro.
Smith, Ronald Gordon,	Pinetown.
*Smith, Winifred Benbury,	Gates.
Smithwick, James Etheridge,	Jamesville.
Smithwick, Lucy,	Louisburg.
Smoak, Nettie Lowe,	Wilkesboro.
Spaugh, Mary,	Mount Airy.
Spell, Hazel Elizabeth,	Roseboro.
Spencer, Mrs. Cora Ellen,	Chapel Hill.
Spruill, Eva C.,	Creswell.
Spruill, Mrs. William E.,	Creswell.
Squires, Callie Jayne,	Matthews.
Stafford, Susie Foust,	Burlington.
Stanfield, Ethel Williams,	Mebane.
Stanley, Mabel Annie,	Goldsboro.
Stanley, William Ezra,	Durham.
Starr, Eloise Blanche,	Wilkesboro.
Staton, Pansy Cornelia,	Polkton.
Steagall, Flora Belle,	Morven.
Stell, Gladys Kathryne,	Zebulon.
Stevens, Mrs. Leah Jones,	New Bern.
Stewart, Annie,	Manson.
Stewart, Horace,	Wallace.
Stokes, Wiley Alexander,	Salisbury.
Stone, Altie Alice,	Kittrell.
Stough, Lucy Elizabeth,	Cornelius.

Stover, Mary Louise,	Wilmington.
Stowe, Hattie Cleveland,	Lowell.
Strader, Lucy Kate,	Walnut Cove.
Stroud, Ethel Janet,	Concord.
Sullivan, George Studdert,	Savannah, Ga.
Suther, Anna,	Goldsboro.
Suther, Virginia Young,	Goldsboro.
Sutton, Maurice Hood,	Calypso.
Sykes, Lessie Lenora,	Durham.
Sykes, Teressa Plenty,	Hillsboro.
Tankersley, Mary Wheaton,	Chapel Hill.
Tarkenton, Nellie,	Mackeys.
Tate, Maud Vivian,	Lenoir.
Tayloe, Bettie Williams,	Ahoskie.
Taylor, Eleanor Agnes,	Franklin.
*Taylor, Gladys Lucille,	Whitsett.
Taylor, Helen Bruce,	Como.
Taylor, Margaret Genevieve,	Dunn.
Taylor, Minnie McKay,	Dunn.
Taylor, Ruth,	Boone.
Taylor, Ruth Carroll,	Dunn.
Teague, Lelia,	Taylorsville.
Tenney, Jane Mary,	Chapel Hill.
Terry, Dulcie Eugenia,	Rocky Mount.
Terry, Lottie Belle,	Rocky Mount.
Thomas, Hattie Frances,	Hightower.
Thomas, Katie Rose,	Jonesboro.
Thomas, Nancy A. J.,	Exmore.
Thompson, Ada Estelle,	Hillsboro.
Thompson, Mary,	Chadbourn.
Thomson, Frances,	Wilmington.
Thornton, Carrie Isabelle,	Newton.
Tilley, Flossie Yates,	Hillsboro.
Timberlake, Elva Anne,	Timberlake.
Tripp, Esther Olivia,	Blounts Creek.
Truitt, Thelma Rhea,	Sparta.
Turley, Eloise Hale,	Clayton.
Turlington, Fannie Elizabeth,	Salemburg.
Turlington, Mary Ella,	Benson.
Turnage, John Woodley,	Ayden.
Turner, Edgar Charlie,	Enfield.
Turner, Etta Irene,	North Wilkesboro.
Turner, Gradabelle,	Smithfield.
Turner, Myrtle Emily,	Reidsville.
Tuttle, Marion Emeth,	Washington.

Tyler, Bettie McBride,	Roxobel.
Umstead, Rida Mae,	Stem.
*Upchurch, Sarah Carolyn,	Norwood.
Uzzell, Pauline,	Chapel Hill.
Vaughan, Maude Lillie,	Cedar Grove.
Vause, Annie Swinson,	Mount Olive.
Venters, Wayne Victor,	Richlands.
Wade, Lina Leary,	Morehead City.
Walker, Elizabeth LeGrande,	Raleigh.
Walker, Evola Violet,	Farmington.
*Walker, Mrs. Hugh Corbin,	Currie.
Wall, Hassie Elizabeth,	Boomer.
Wall, Rebecca Bennehan,	Hillsboro.
Wallace, Euna,	Star.
*Waller, Flora Emmerson,	Mount Olive.
Walton, John Stacy,	Jacksonville.
Walton, Sadie Mae,	Jacksonville.
Warburton, Elma,	Rockingham.
Ward, Clara Mae,	Bethel.
Warren, Bessie Hill,	Edward.
Warren, Lila Ruth,	Wilson.
Warren, Mary Fowle,	Blounts Creek.
Washington, Luetta Elizabeth,	Oxford.
Waters, Ray Virginia,	Pinetown.
Watkins, Sue Hortense,	Middleburg.
Watts, Hessie Bell,	Mooresville.
Weatherly, Mrs. Eloise Walker,	Kernersville.
Weatherly, Mattie Elberta,	Elizabeth City.
Webster, Ernestine,	Wilkesboro.
Wellons, Emma Sanders,	Smithfield.
Wells, Mary Elizabeth,	Smithfield.
Wessell, Mabel Helena,	Wilmington.
Wheeler, Henry James,	Chapel Hill.
Wheeler, Josie Ruth,	Edenton.
Whisonant, Mary Matilda,	Blacksburg, S. C.
White, Belle Parker,	Belvidere.
White, Evelyn Anne,	Hertford.
White, Mary Newby,	Belvidere.
Whitehurst, Lilly Belle,	Wilson.
Whitley, Ida Belle,	Oakboro.
Whitley, Ida Victoria,	Albemarle.
Wilkins, Margaret Elizabeth,	Hendersonville.
Wilkinson, Alice M.,	Goldsboro.
Williams, Alba Anna,	Apex.
Williams, Bettie Granberry,	Currituck.

Williams, Mrs. C. U.,	Poplar Branch.
*Williams, Eva Irene,	Hillsboro.
Williams, Fannie Myrt,	Williamston.
Williams, Grace Frances Eugenia,	Tabor.
Williams, Lena Mae,	Chapel Hill.
Williams, Mary Creech,	Clayton.
*Williams, Myrtle Elizabeth,	Angier.
Williams, Ruby Ovessa,	Barnesville.
Williamson, Edna Lee,	Davidson.
Williamson, Marie,	Cerro Gordo.
Williamson, Maude,	Cerro Gordo.
Williamson, Sarah,	Natchitoches, La.
Wilson, Francis Luther,	Brevard.
Wilson, Grace,	Newton.
Wilson, Sarah Frances,	Newton.
Wilson, Verd,	Washington.
Womack, Anderson William,	Mill Springs.
Wood, Elizabeth Olive,	Elizabeth City.
Woodruff, Alma Ruth,	Roanoke, Va.
Woods, Annie Elizabeth,	Cedar Grove.
Wooten, Mary Emma,	Raleigh.
Worsham, Buford, Blackburn,	Reithbend, Va.
Wright, Josie Grainger,	Wilmington.
Wright, Thomas Bernard,	Greensboro.
Wroton, Lula Bess,	Denmark, S. C.
Younger, Alta Lee,	New Hope.
*Zimmerman, Ella Mae,	Lexington.

Demonstration School Pupils

Andrews, Charles	Lindsey, Clara
Battle, Dick	Lindsey, Mary
Best, Glenn	Moser, Bill
Boone, Catherine	Moser, Preston
Boone, John	Neville, Duncan
Boone, Lloyd	Neville, Francis
Boone, Stephen	Neville, Noble
Boothe, Wallace	Partin, Margaret
Brockwell, Effie	Partin, Ruth
Brockwell, Joanna	Peace, Margaret
Brockwell, Lyda	Pendergraft, Bessie
Buice, Clarence	Pendergraft, Frank
Buice, Harry	Pendergraft, Gladys
Burch, Calvin	Pendergraft, Otis
Bynum, Rupert	Poythress, Thelma

Bynum, Seny
Bynum, Vivian
Cate, Eugene
Cate, Mildred
Cate, Noel
Cheeke, Neel
Clarke, Maude
Coltrane, Mary Alma
Cooke, Blacknall
Cooke, Elliott
Couch, Joseph
Council, Claude
Creel, Thurman
Cutchin, Marie
Cutchin, Theodore
Davis, Hope
Duke, Worth
Elliott, Virginia
Fowler, Alice
Harward, Lola
Henry, Rena
Herndon, Mary
Hocutt, Ruth
Horton, Banks
Horton, Thelma.
Koch, George
Lear, Merritt
Leigh, H. D.
Leigh, Jack
Leigh, May
Prouty, Frederick
Prouty, William
Raney, Rosa
Raney, Thomas
Ray, Edward
Ray, William
Rice, Philip
Sparrow, Ernest
Sparrow, John
Stone, Howard
Stone, Louise
Stone, Robert
Sugg, Myrtle
Taylor, Baxter
Taylor, Jack
Taylor, Rena Belle
Taylor, Willie May
Thompson, Ruth
Thompson, Madeline
Uzzell, Francis
Uzzell, William
Watts, Ruth
Williams, Eleanor
Williams, Francis
Wills, Helen
Wilson, Edward
Wilson, Penelope
Winston, George
Woollen, Billy
Woollen, Charles

STUDENTS

Graduates		73
Undergraduates:		
Senior Class	126	
Junior Class	173	
Sophomore Class	273	
Freshman Class	384	
Special Students:		
Premedical	141	
Public Welfare	18	
Other Specials	55	
	214	
		1,170
School of Law:		
Students in Law (Regular Session)	110	
Students in Law (Summer, 1920)	44	
		154
School of Medicine:		
Second Year Students	28	
First Year Students	41	
Special Students	3	
		72
School of Pharmacy:		
Third Year Student	1	
Second Year Students	10	
First Year Students	30	
Special Students	27	
		68
The Summer School (1920):		
College and Graduate Students	437	
Normal and Preparatory Students	709	
Total Summer School	1,146	
Total number of Regular Students		1,974
Deduct for names repeated		160
Net Regular Students		1,814
Total number of Normal, etc., Students	709	
Deduct for Normal, etc., Students now Regular	9	
Net Normal, etc., Students		700
Grand Total		2,514

INDEX

Absences, 78.
Accounting, Courses in, 148.
Acts of Incorporation, 37.
Administration, Officers of, 10.
Admission to Advanced Standing, 54.
to the College, 62.
to the School of Commerce, 63.
to the School of Education, 63.
to the School of Applied Science, 63.
to the School of Law, 64.
to the School of Medicine, 65.
to the School of Pharmacy, 66.
to the School of Public Welfare, 64.
to the Summer Law School, 176.
to the Graduate School, 64, 161.
to the Bar, 177.
Alumni Organizations, 102.
Agriculture, for Admission, 62.
Aid, Pecuniary, 70.
Allied Courses, School of Commerce, 153.
American Institute of Electrical Engineers, 99.
Anatomy, Courses in, 183.
Applied Science, School of, 120.
Apprenticeships, in School of Commerce, 147.
Arrangement of Courses, 76.
Assignment of Rooms, 76.
Association, The Young Men's Christian, 100.
Musical, 98.
Athletics, 41, 81.
Eligibility to, 81.
Attendance upon Chapel, 40, 78.
upon Class, 78.
Bachelor's Degree, *see Degrees.*
Bacteriology, Courses in, 188, 198.
Bible Study, Courses in, 100.
Bingham Prize in Debate, The, 74.
Biological Laboratory, The, 45.
Biology, Courses in, *see Botany and Zoology.*
Board, 69.
Bookkeeping, for Admission, 61.
Botany, Courses in, 198, 252.
for Admission, 56.
Bryan Prize, The, 74.
Buildings, 42.
Bureau of Extension, 241.
for Teachers, 244.
Business Administration, Courses in, 149.

Calendar, 3.
Campus, Cabinet, The, 86.
Carolina Playmakers, 99.
Cercle Francaise, Le, 97.
Certificates, Entrance, 54.
in Special Departments, 81.
Chapel Exercises, 40, 78.
Charter of the University, 37.
Chemical Laboratories, 44.
Chemistry, Courses in, 121, 183, 206, 253.
for Admission, 56.
Fellowship in, 70.
Journal Club in, 259.
Christian Association, The Young Men's, 100.
Civics, for Admission, 56.
Civil Engineering, Bachelor of Science in, 125.
Courses in, 259.
Laboratories, 48.
Civil Engineering Society, 99.
College of Liberal Arts, 113.

College Year, The, 40.
Commencement, 343.
Commerce, School of, 143.
Courses in, 148.
Allied Courses, 153.
Commercial Arithmetic, for Admission, 62.
Commercial Geography, for Admission, 62.
Committees of the Faculty, 31.
of the Trustees, 9.
Commons, *see Board.*
Community Drama, 247.
Community Music, 248.
Comparative Literature, Courses in, 263.
Conditions, 79.
Entrance, 54.
Examinations for the Removal of, 79.
Conduct, 40, 77.
Contracts for Rooms, 76.
Correspondence Courses, 245.
Council, the University, 85.
Country Home Comforts, 246.
County Surveys, 243.
Courses, Arrangement of, 76.
for Bachelor of Arts, 113.
for Bachelor of Arts and Laws, 171.
for Bachelor of Arts in Education, 132.
for Bachelor of Laws, 172.
for Master of Arts, 164.
for Bachelor of Science, 120.
for Bachelor of Science in Commerce, 144.
Correspondence, 245.
in Medicine, 180.
for Master of Science, 165.
for Doctor of Philosophy, 166.
in Pharmacy, 194.
for Women's Clubs, 245.
for School of Public Welfare, 157.
Culture, General, 40.
Religious, 40.
Curriculum, *see Courses.*

Damage to University Property, 67, 77.
Debate and Declamation, 242.
Deems Fund, The, 72.
Degree of Bachelor of Arts, 113.
Bachelor of Arts in Education, 132.
Bachelor of Arts and Laws, 171.
Bachelor of Science, 120.
Bachelor of Laws, 130.
Bachelor of Science in Commerce, 144.
Doctor of Philosophy, 166.
Doctor of Pharmacy, 193, 194.
Graduate in Pharmacy, 192, 193.
Master of Arts, 164.
Master of Science, 165.
Pharmaceutical Chemist, 193, 194.
Degrees, Courses Leading to, *see Courses.*
With Distinction, 117.
Design of School Grounds, 248.
Deutsche, Verein, Der, 97.
Dialectic Literary Society, 95.
Discipline, 40, 77.
Doctor of Philosophy, 166.
of Pharmacy, 193, 194.
Dormitory Accommodations, 43, 69.
Drawing, Courses in, 207.
for Admission, 57.

Economics, Courses in, 208, 266.
Education, Courses in, 134, 209, 268.
School of, 131.
Educational Information and Assistance, 244.

Electives, System of, 115.
Electrical Engineering, Bachelor of Science, 123.
Courses in, 269.
Laboratories, 48.
Electrical Engineers, American Institute of, 99.
Eligibility for Athletics, 81.
for Fraternities, 84.
Elisha Mitchell Scientific Society, 95.
Embryology, Course in, 184.
Engineering, Courses in, 121.
English, Courses in, 217, 273.
Prizes in, 74, 75.
Requirements for Admission, 57.
Entrance, Subjects Accepted for, 55.
Equipment, 42.
Examinations, Absence from, 79.
regulations concerning, 79.
excuses from, 79.
for entrance, 54.
for removal of conditions, 80.
Expenses in College, 67.
in School of Applied Science, 67.
in School of Education, 67.
in School of Commerce, 67.
in School of Public Welfare, 67.
in School of Law, 67,
in School of Medicine, 67.
in School of Pharmacy, 67.
in Graduate School, 67.
Extension, Bureau of, 241.
Extension Lectures, 243.

Faculty, University, 12.
Summer School, 200.
Fees, 67.
Laboratory, 68.
Laundry, 68.
Fellowships, 70.
University Teaching, 161.
Finance, Courses in, 266.
Foundation of the University, 37.
Fraternities, 84.
Free Tuition, 72.
French, Courses in, 221, 326.
Requirements for Admission, 59.

General Advantages of the University, 38.
General Culture, 40.
General Information, 35.
General Science, 59.
Geography, Courses in, 222.
Commercial, for Admission, 62.
Geology, Courses in, 128, 222, 283.
Prize in, 74.
Laboratories, 43.
German Courses in, 224, 287.
Requirements for Admission, 60.
Government, of the University, 37.
student, 85.
courses in, 295.
Grades of Scholarship, 80.
Graduate Degrees, 163.
Graduate School, 160.
Graduation, 81.
School of Education, 132.
School of Commerce, 144.
in School of Law, 171.
in School of Medicine, 180.
in School of Pharmacy, 192.
Greek, Courses in, 290.
Requirements for Admission, 60.
Prize in, 74.
Gymnasium, The, 41, 42.

Hazing, 77.
Hewitt Fund, The, 72.

Highway Engineering, Course in, 125.
Laboratories, 48.
Histology, Course in, 184.
Historical Society, The, 96.
Historical Sketch of the University, 37.
History, Courses in, 227, 292.
Requirements for Admission, 60.
Hogue Fund, The, 72.
Holt Funds, The, 73.
Home Economics, Courses in, 228.
Home Study Courses, 245.
Honors, Courses for, 117.
in Languages and Literature, 118.
Hospitals, 41.

Incorporation, Act of, 37.
Information, General, 35.
Infirmary, 41.
Instruction, Courses of, 249.
in School of Education, 134.
in School of Commerce, 148.
in School of Law, 172.
in School of Medicine, 183.
in School of Pharmacy, 194.
in Summer School, 205.
Italian, Course in, 331.

Journal Club in Chemistry, *see Chemistry.*
Journalism, Courses in, 276.

Laboratories, Biological, 45.
Civil Engineering, 48.
Chemical, 44.
Electrical Engineering, 48.
Geological, 43.
Mechanical, 49.
Medical, 45.
Pharmaceutical, 47.
Physical, 47.
Laboratory Fees, 68.
Latin, Courses in, 229, 298.
Requirements for Admission, 60.
Law License, 177.
Law School, The, 170.
Courses, 172.
Students Clubs, 175.
Summer, 176.
Lectures, Public, 90.
Extension, 243.
McNair, 90.
School of Commerce, 146.
Southern Exchange, 93.
University, 93.
Weil, 92.
Library, The University, 50.
Administration, Course in, 135, 230.
Law, 175.
Literary Societies, 95.
Loan Funds, 72.

McNair Lectures, 90.
Mangum Medal, 74.
Manual Training, for Admission, 62.
Marketing and Salesmanship, Courses in, 151.
Martin Fund, The, 72.
Mary D. Wright Memorial Medal, 75.
Master's Degree, *see Degrees.*
Materia Medica, Courses in, 187, 197.
Mathematics, Courses in, 231, 302.
Prize in, 75.
Requirements for Admission, 60.
Mechanical Engineering, Courses in, 272.
Laboratory, 49.
Medals, 75.
Medical Attendance, 41.
Medical Laboratory, 45.

Medicine, Bachelor of Science in, 127.
School of, 179.
Microscopic Anatomy, Course in, 183.
Military Science and Tactics, Courses in, 309.
Military Training, 87, 309.
Mineralogy, Courses in, *see Geology.*
Minor Surgery, Courses in, 186.
Mission Courses, 100.
Modern Languages, *see German, etc.*
Municipal Aid, 244.
Museum, Biological, 45.
Geological, 43.
Music, Courses in, 233, 317.
Musical Association, 98.

North Carolina Historical Society, 96.
North Carolina Club, The, 98.

Officers of Administration, 10.
Orations for Graduation, 81.
Prizes for, 74.
Organization of the University, 39.
Organizations, The University, 95.

Pathology, Courses in, 188.
Pecuniary Aid in College, 70.
Pedagogy, *see Education.*
Pharmaceutical Laboratory, 47.
Pharmacology, Courses in, 187, 197.
Pharmacy, Courses in, 194.
School of, 191.
for Medical Students, 185.
Philanthropic Literary Society, 95.
Philological Club, 97.
Philosophy, Courses in, 318.
Prize in, 74.
Physical Diagnosis, Course in, 186.
Physical Laboratory, The, 47.
Physical Training, 41.
Physics, Courses in, 234, 319.
Requirements for Admission, 61.
Physiography, for Admisson, 61.
Physiology, Courses in, 186.
Requirements for Admission, 61.
Political Science, Prize in, 74.
Portuguese, Courses in, 331.
Power Plant, 49.
Pre-Medical Course, 129.
Prizes, 74.
Psychology, Courses in, 235, 322.
Public Welfare, School of, 156.
Courses Offered, 157.
Publications, Extension, 248.

Registration in College, 76.
Regulations, 76.
Religious Culture, 40.
Requirements for Admission to Advanced Standing, 54.
College, 62.
School of Education, 63.
Commerce and Finance, 63.
School of Law, 64.
School of Medicine, 65.
School of Pharmacy, 66.
School of Applied Science, 63.
Graduate School, 64.
School of Public Welfare, 64.
Requirements for Graduation, *see Graduation.*
Reserve Officers Training Corps, 87.
Road Engineering, Courses in, 125, 259.
Institute, 246.
Romance, Languages, *see French, etc.*

Rooms, Assignment of, 76.
Rural Economics, Courses in, 236, 332.

Sanitary Engineering, Laboratories, 48.
Courses in, 259.
Schedule of Recitations, Medical School, 190.
Scholarships, 70.
School of Public Welfare, 158.
Science, for Admission, 59.
Science, School of Applied, 120.
Self Help, 73.
Sermons, University, 94.
Situation of the University, 38.
Societies, Literary, 95.
Sociology, Courses in, 236, 238, 333.
Southern Exchange Lectures, 93.
Spanish, Courses in, 238, 329.
for Admission, 61.
Standing, 80.
Stanton Byrd McKinnon Memorial Medal, 75.
State and County Council, 244.
Stenography, for Admission, 62.
Student Assistants, 30.
Student Council, 85.
Students, List of, 349.
Summer School, 200.
for Law, 176.
Courses in, 205.
Surveys, Economic and Social, 243.
Swain Hall, *see Board.*

Teachers' Certificate, 131.
Teaching Fellows, 30.
Theses in School of Pharmacy, 193.
Graduate School, 164, 166.
Trustees, 6.
Tuition Fee, *see Expenses.*
Tuition, Free, 72.
Typewriting, for Admission, 62.

University Council, The, 85.
University Teaching Fellowships, 161.

Victor S. Bryant Fund, The, 73.
Vocational Subjects for Admission, 61.

William Simpson Pharmaceutical Society, 199.
Weil Lectures, 92.
Women's Clubs, Courses for, 245.
Worth Prize in Philosophy, The, 74.
Writing, Courses in, 239.

Young Men's Christian Association, 100.

Zoology, Courses in, 239, 337.
for Admission, 61.